CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 7, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Mar.				
*12	Canals	Huntley, Mont.	P., S. & B. S.	2- 7
*15	Dam	Great Falls, Mont.	P., S. & B. S.	2- 7
18	Sewers	Burlington, Iowa	P., S. & B. S.	1-10
23	Officers' quarters	Charleston, S.C.	S.	2-21
30	Capstans	Norfolk, Va.	S.	2-21
30	Capstans	Charleston, S. C.	S.	2-21
*30	Water tank & tower	Wash., D.C.	S.	2-28
30	Generating set	Portsmouth, N. H.	S.	3- 7
Apr				
*3	Canal, etc.	Great Falls, Mont.	P., S. & B. S.	2-14

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Mar. 7	Lighting	Natchez, Miss.		Dec. 20
	Advertised, Eng. News, Dec. 20 and 27.			
Mar. 12	Power plant	Washington, D. C.		Feb. 7
	Advertised, Eng. News, Feb. 7 to 21.			
Mar. 18	Electric equipment	New York, N. Y.		Mar. 7
Mar. 18	Heating	New York, N. Y.		Mar. 7
Mar. 20	Lighting plant	Snyder, Okla.		Mar. 7
Mar. 30	Generating set	Portsmouth, N. H.		Mar. 7
Apr. 15	Power plant	Bowling Green, Ky.		Mar. 7
May 1	Lighting	Natchez, Miss.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			

BRIDGES.

Mar. 7	Bridges	La Grande, Ore.		Feb. 28
Mar. 7	Bridges	San Diego, Cal.		Feb. 28
Mar. 7	Viaduct	Jersey City, N. J.		Feb. 28
Mar. 9	Bridge and culvert	Cleveland, Ohio		Feb. 28
Mar. 11	Bridges	East Zorra, Ont.		Feb. 28
Mar. 11	Steel bridge	Petersburg, Va.		Feb. 28
	Advertised, Eng. News, Feb. 28.			
Mar. 12	Bridge	Napa, Cal.		Feb. 28
Mar. 12	Bridge	Beaver, Ky.		Mar. 7
Mar. 13	Bridges	Ottawa, Ont.		Mar. 7
Mar. 13	Culvert	Des Moines, Iowa		Mar. 7
Mar. 13	Superstructure	Camden, N. J.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 14	Alterations, etc.	New York, N. Y.		Mar. 7
Mar. 16	Pier and abutments	Dayton, Ohio		Mar. 7
Mar. 16	Bridge and culvert	Cleveland, Ohio		Mar. 7
Mar. 18	Bridge	Millheim, Pa.		Mar. 7
Mar. 18	Aqueduct	New York, N. Y.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 18	Superstructure	Chillicothe, Ohio		Feb. 28
Mar. 18	Bridges	Chillicothe, Ohio		Feb. 28
Mar. 19	Superstructure	Shellmouth, Man.		Feb. 28
Mar. 20	Bridge	Yorkville, S. C.		Feb. 28
Mar. 20	Bridges	Dauphin, Man.		Feb. 28
Apr. 1	Bridges	Salinas, Cal.		Feb. 21
Apr. 1	Bridge	Greenwood, Miss.		Jan. 31
Apr. 29	Viaduct	New Orleans, La.		Feb. 28
	Advertised, Eng. News, Feb. 28 to Apr. 11.			

BUILDINGS.

Mar. 11	Heating, etc.	New York, N. Y.		Feb. 28
Mar. 11	Schools	New York, N. Y.		Feb. 28
Mar. 11	Schools	Camden, N. J.		Mar. 7
Mar. 14	Post-office, etc.	Spokane, Wash.		Feb. 7
Mar. 15	Railway shops	Calgary, Alta.		Mar. 7
Mar. 16	Pipe, etc.	Washington, D. C.		Feb. 28
	Advertised, Eng. News, Feb. 28 and Mar. 7.			
Mar. 18	Sanitary work, etc.	New York, N. Y.		Mar. 7
Mar. 20	Post-office	Atlantic City, N. J.		Mar. 7
Mar. 21	Post-office	Owosso, Mich.		Feb. 21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 23	Officers' quarters	Charleston, S. C.		Feb. 21
Mar. 23	Post-office	Green Bay, Wis.		Feb. 21
	Advertised, Eng. News, Feb. 21 and 28.			
Apr. 1	Buildings	North Chicago, Ill.		Feb. 21
Apr. 9	Court-house	Carthage, Ill.		Feb. 28
Apr. 3	Plumbing fixtures	Washington, D. C.		Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Apr. 3	Library	University, N. Dak.		Mar. 7
Apr. 8	Post-office	Denver, Colo.		Mar. 7
Apr. 9	Post-office	Little Falls, N. Y.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Apr. 15	Post-office	Tyler, Tex.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
May 1	Plans	Milwaukee, Wis.		Feb. 28
June 4	State Capitol	Pierre, S. Dak.		Mar. 7

WATER SUPPLY AND IRRIGATION.

Mar. 7	Drain	Rockwell City, Iowa		Feb. 21
Mar. 7	Water mains	New York, N. Y.		Feb. 21
Mar. 7	Distributing system	Ft. Monroe, Va.		Feb. 7
	Advertised, Eng. News, Feb. 7 to 28.			
Mar. 7	Water mains	Salt Lake City, Utah		Feb. 7
	Advertised, Eng. News, Feb. 7 and 14.			
Mar. 7	Chimney	Yonkers, N. Y.		Feb. 14
	Advertised, Eng. News, Feb. 14.			
Mar. 7	Water-works	Fort Monroe, Va.		Feb. 14
Mar. 11	Water-works	Cushing, Iowa		Mar. 7
Mar. 12	Canals, etc.	Milner, Idaho		Mar. 7
Mar. 12	Water drains	Waterbury, Vt.		Mar. 7
Mar. 12	Hydrants, etc.	Ottawa, Ont.		Lar. 7
Mar. 12	Canals	Huntley, Mont.		Jan. 17
	Advertised, Eng. News, Jan. 17 to Feb. 7.			
Mar. 12	Cement	Huntley, Mont.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 12	Water-works	Spain (Foreign)		Feb. 28
Mar. 13	Remodeling pumping station, etc.	New York, N. Y.		Feb. 21
Mar. 13	Water main and pipe	Detroit, Mich.		Mar. 7
Mar. 15	Water-works and sewers	Lumberton, N. C.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Mar. 15	Water-works	Gate City, Iowa		Mar. 7
Mar. 15	Hydrants	St. Boniface, Man.		Feb. 21
Mar. 15	Dam	Great Falls, Mont.		Feb. 7
	Advertised, Eng. News, Feb. 7 to Mar 7.			
Mar. 15	High duty pumps	Fort Worth, Tex.		Feb. 28
	Advertised, Eng. News, Feb. 28 to Mar. 14.			
Mar. 16	Water-works, etc.	Ft. Barry, Cal.		Mar. 7
Mar. 18	Water tank	Fall River, Mass.		Mar. 7
Mar. 18	Water-works	Franklin, Mo.		Mar. 7
Mar. 18	Water-works & Sewers	South McAlester, Ind. T.		Feb. 28
Mar. 19	Pumping plant	California City Point, Cal.		Feb. 14
Mar. 20	Water-works, etc.	Saskatoon, Alta.		Feb. 21
Mar. 30	Water tank and tower	Washington, D. C.		Feb. 21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 20	Engine and boilers	Sioux City, Iowa		Mar. 7
Mar. 20	Water-works, sewer outfall, etc.	Snyder, Okla.		Mar. 7
Mar. 21	Well clusters and c.-i. pipe	Ironton, Ohio		Mar. 7
Mar. 22	Cisterns	Ellis, Ohio		Mar. 7
Mar. 22	Cast-iron pipe, etc.	Alma Center, Wis.		Feb. 28
Mar. 22	Tank, engine, etc.	Alma Center, Wis.		Feb. 28
Mar. 23	Water tank and tower	Frontenac, Kan.		Mar. 7
Mar. 25	Lead pipe	St. Paul, Minn.		Mar. 7
Apr. 2	Mains	Crowley, La.		Feb. 28
Apr. 3	Canals, etc.	Great Falls, Mont.		Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 21.			
Apr. 3	Ditches	Parker, S. Dak.		Feb. 21
Apr. 4	Ditches, etc.	Emmetsburg, Iowa		Mar. 7
Apr. 10	Canal	Belle Fourche, S. Dak.		Feb. 21
	Advertised, Eng. News, Feb. 21 and 28.			
Apr. 15	Canal	Portland, Ore.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Apr. 15	Water-works	Billings, Mont.		Mar. 7
Apr. 17	Structures	Huntley, Mont.		Feb. 28
	Advertised, Eng. News, Feb. 28 to Mar. 21.			

SEWERAGE.

Mar. 8	Sewers	Elyria, Ohio		Mar. 7
Mar. 9	Sewers	Scranton, Pa.		Feb. 21
Mar. 9	Sewers	Decatur, Ill.		Feb. 28
Mar. 10	Sewer	Lima, Ohio		Feb. 21
Mar. 11	Septic tank	Aberdeen, S. Dak.		Feb. 14
Mar. 11	Sewers	Ottumwa, Iowa		Feb. 28
Mar. 11	Sewer	Des Moines, Iowa		Mar. 7
Mar. 11	Sewer	Aberdeen, S. Dak.		Mar. 7
Mar. 12	Sewers	Cairo, Ill.		Mar. 7
Mar. 12	Sewer	Sayre, Pa.		Feb. 14
	Advertised, Eng. News, Feb. 14 to 28.			
Mar. 12	Sewers, etc.	National Home, Wis.		Feb. 21
Mar. 14	Sewer	St. Bernard, Ohio		Feb. 21
Mar. 14	Sewers	Painesville, Ohio		Mar. 7
Mar. 14	Sewers	New York, N. Y.		Mar. 7
Mar. 18	Sewer	Willoughby, Ohio		Mar. 7
Mar. 18	Sewers	Burlington, Iowa		Dec. 27
	Advertised, Eng. News, Dec. 27.			
Mar. 19	Pumping engines	Summit, N. J.		Feb. 28
	Advertised, Eng. News, Feb. 28 to Mar. 14.			
Mar. 19	Sewers, etc.	Philadelphia, Pa.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Mar. 20	Sewers	Lancaster, Ohio		Mar. 7
Mar. 20	Sewers	Vinton, Iowa		Mar. 7
Mar. 20	Pipe sewer	Pittsburg, Kan.		Feb. 28
Mar. 20	Sewers	White Plains, N. Y.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 21	Sewers	Polo, Ill.		Mar. 7
Mar. 25	Boilers and Chimney	Orange, N. J.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Mar. 25	Pumping main and ejectors	Orange, N. J.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Apr. 2	Sewage disposal works	Waterbury, Conn.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Apr. 2	Sewer	Crowley, La.		Feb. 21
Apr. 5	Trenches	Boston, Mass.		Mar. 7
	Advertised, Eng. News, Mar. 7.			
Apr. 10	Interceptors, etc.	Baltimore, Md.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			

REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

Construction News Department

STREETS AND ROADS.

Mar. 7	Gravel road	Columbus, Ind.		Feb. 28
Mar. 7	Improving highways	Indianapolis, Ind.		Feb. 28
Mar. 7	Repairing wall and roadway	Jersey City, N. J.		Feb. 28
Mar. 7	Gravel road	Brazil, Ind.		Feb. 21
Mar. 7	Highway	Newark, Ohio		Feb. 21
Mar. 7	Gravel, etc.	New York, N. Y.		Feb. 21
Mar. 7	Paving, etc.	Two Rivers, Wis.		Feb. 14
Mar. 8	Gravel road	Princeton, Ind.		Feb. 14
Mar. 8	Curbs and gutters	Valparaiso, Ind.		Jan. 17
Mar. 8	Paving	Marysville, Ohio		Feb. 28
Mar. 9	Paving, etc.	Cleveland, Ohio		Feb. 28
Mar. 9	Paving	Greenfield, Ind.		Feb. 28
Mar. 9	Paving	El Paso, Ill.		Mar. 7
Mar. 9	Grading, etc.	Cleveland, Ohio		Mar. 7
Mar. 11	Paving, etc.	Ashland, Ky.		Mar. 7
Mar. 11	Gravel roads	Newport, Ind.		Mar. 7
Mar. 11	Paving	Richmond, Que.		Mar. 7
Mar. 11	Paving	Adrian, Mich.		Feb. 28
Mar. 11	Paving	St Catharines, Ont.		Feb. 28
Mar. 11	Paving	Titusville, Pa.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 12	Grading	Houston, Tex.		Mar. 7
Mar. 13	Rock, etc.	Brooklyn, N. Y.		Mar. 7
Mar. 13	Brick, stone, etc.	Ottawa, Ont.		Mar. 7
Mar. 13	Macadam	Camden, N. J.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 14	Paving	Watertown, N. Y.		Feb. 28
	Advertised, Eng. News, Feb. 28.			
Mar. 14	Sod	New York, N. Y.		Feb. 28
Mar. 14	Paving, etc.	Painesville, Ohio		Mar. 7
Mar. 15	Road	Harrisburg, Pa.		Feb. 28
Mar. 15	Improving grounds	Salem, Ore.		Feb. 14
Mar. 16	Paving	Omaha, Neb.		Feb. 21
Mar. 16	Improving battlefield	Washington, D. C.		Feb. 28
Mar. 16	Road work	Waterloo, Iowa		Feb. 28
Mar. 18	Paving	Columbus, Ind.		Feb. 28
Mar. 18	Highway	New Philadelphia, Ohio		Feb. 28
Mar. 18	Paving, etc.	Port Chester, N. Y.		Feb. 28
	Advertised, Eng. News, Feb. 28 and Mar. 7.			
Mar. 19	Cement sidewalks	Bessemer, Ala.		Mar. 7
Mar. 19	Paving, etc.	New York, N. Y.		Mar. 7
Mar. 20	Repaving, etc.	Brooklyn, N. Y.		Mar. 7
Mar. 20	Grading, etc.	Philadelphia, Pa.		Mar. 7
	Advertised, Eng. News, Mar. 7.			
Mar. 23	Repairing pavements	Washington, D. C.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Mar. 23	Gravel road	Terre Haute, Ind.		Mar. 7
Mar. 25	Paving, etc.	Mamaroneck, N. Y.		Mar. 7
	Advertised, Eng. News, Mar. 7 to 21.			
Mar. 30	Paving	Washington, D. C.		Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.			
Apr. 3	Driveway, etc.	Chicago, Ill.		Mar. 7

MISCELLANEOUS CONTRACTS.

Mar. 7	Chimney	Yonkers, N. Y.		Feb. 14
	Advertised, Eng. News, Feb. 14.			
Mar. 9	Barges	Montgomery, Ala.		Feb. 28
Mar. 10	Cement	Edmonton, Alta.		Mar. 7
Mar. 11	Lumber	Wheeling, W. Va.		Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Mar. 11	Repairing dikes	New York, N. Y.		Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Mar. 12	Bear-trap gates	Wheeling, W. Va.		Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Mar. 12	Supplies	Panama		Feb. 28
Mar. 12	Drain	Algona, Iowa		Feb. 28
Mar. 13	Cable	New York, N. Y.		Mar. 7
Mar. 14	Incinerator	New York, N. Y.		Feb. 28
Mar. 15	Wharf, breakwater	Moncton, N. B.		Mar. 7
Mar. 16	Sea-wall, etc.	Philadelphia, Pa.		Feb. 28
	Advertised, Eng. News, Feb. 28 and Mar. 7.			
Mar. 18	Lock-gate machinery	Boston, Mass.		Feb. 21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 18	Removing bedrock	Detroit, Mich.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 20	Excavation	Boston, Mass.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 20	Dredging	Des Moines, Iowa		Feb. 21
Mar. 20	Pontoons	Cincinnati, Ohio		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 20	Dredging	Grand Rapids, Mich.		Feb. 28
Mar. 21	Bulkhead	New York, N. Y.		Mar. 7
Mar. 22	Dredging	Chicago, Ill.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 22	Steel wall lockers	West Point, N. Y.		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 22	Lock and dam, etc.	Cincinnati, Ohio		Feb. 21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 25	Dredging	Jacksonville, Fla.		Feb. 28
	Advertised, Eng. News, Feb. 28 to Mar. 21.			
Mar. 25	Telephone cable	Western Australia (Foreign)		Feb. 28
Mar. 27	Dredging	New Orleans, La.		Jan. 24
	Advertised, Eng. News, Jan. 24 and 31.			
Mar. 28	Canal	Boston, Mass.		Feb. 14
	Advertised, Eng. News, Feb. 14 to 28.			
Mar. 30	Capstans	Charleston, S. C.		Feb. 21
Mar. 30	Capstans	Norfolk, Va.		Feb. 21
Mar. 30	Timber land	Scranton, Miss.		Feb. 28
	Advertised, Eng. News, Feb. 28 to Mar. 21.			
Mar. 30	Dredging plant	Cincinnati, Ohio		Mar. 7
	Advertised, Eng. News, Mar. 7 to Mar. 28.			
Apr. 2	Reclamation work	British India (Foreign)		Jan. 17
Apr. 3	Cement	Wheeling, W. Va.		Mar. 7
	Advertised, Eng. News, Mar. 7 to Mar. 28.			
Apr. 4	Repairing pier	Grand Rapids, Mich.		Mar. 7
	Advertised, Eng. News, Mar. 7 to Mar. 28.			
Apr. 5	Drain	Algona, Iowa		Feb. 28
Apr. 11	Cement	Brandon, Man.		Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Apr. 12	Ditches	Brookings, S. Dak.		Oct. 18
July 1	Tunnel	New Zealand (Foreign)		Sept. 13
	Advertised, Eng. News, Sept. 13 to Mar. 14.			

CIVIL SERVICE EXAMINATIONS.

Mar. 7	Masonry Inspector	New York, N. Y.		Feb. 14
Mar. 13	Draftsmen	Washington, D. C.		Feb. 28
Mar. 13	Topographic and Cartographic Draftsman	Washington, D. C.		Feb. 28
Mar. 16	Asst. Inspector of Gas	Albany, N. Y.		Feb. 21
Mar. 20	Draftsman and Surveyor	Hawaii		Feb. 28
Mar. 20	Forest Supervisor	Alaska		Feb. 28

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARKANSAS, LOUISIANA & GULF.—We are officially advised that bids will be received within the next 60 days for building this railway from Pine Bluff, Ark., to Monroe, La., 150 miles. Alfred Cowles is Pres., Postal Telegraph Bldg., Chicago. A. H. Vanauken is Ch. Engr., Pine Bluff, Ark. E. G. Hammock, Gen. Atty., Monticello, Ark. Right-of-way and capital are obtained, and survey is made.

BUFFALO, ROCHESTER & PITTSBURG.—On Jan. 31 it was stated that "it is planned to construct a double-track line between Punxsutawney and Butler, Pa., next fall, according to local newspaper reports." J. M. Floesch, Ch. Engr., Rochester, N. Y., advises us that "there is no truth in this report."

CIMARRON & NORTHWESTERN.—T. A. Schomburg, Pres., Trinidad, Colo., informs us that contracts will be let by this company within 30 days for building this railway from Cimarron, N. Mex., to Van Bremmer Park, 36 miles. A. G. Allan is Ch. Engr., at Cimarron. Right-of-way and capital are secured and survey has been run. Construction work will be heavy. Noted on Feb. 7.

CINCINNATI, BLUFFTON & CHICAGO.—S. H. Bracey, Pres., 1906 Tribune Bldg., Chicago, informs us that contracts will be let about May 1 for building its proposed extensions from Bluffton, Ind., to Huntington, 22 miles. Company will also build from Portland, Ind., to Union City and Richmond, 50 miles. Surveys are made. Capital is ready. Right-of-way is being secured. D. C. Dunlap is Ch. Engr., Bluffton, Ind.

CUMBERLAND RIVER & NASHVILLE.—We are officially advised that this company is ready to begin the construction of its line of railroad, and for the present wishes prices on 20 miles of relaying rails and connections, rails to weigh not less than 60 lb., and subject to inspection; also one-deck plate girder bridge, about 1,000 ft. in length, which company will build across the Cumberland River, as well as some second-hand equipment. Headquarters are at 429 East Broadway, Louisville, Ky. Noted on Jan. 17.

GRANITE CITY & MISSISSIPPI RIVER.—Incorporated in Illinois to build a belt line at Granite City from a connection with the Chicago, Peoria & St. Louis to a connection with the Wabash R. R., the Cleveland, Cincinnati, Chicago & St. Louis and the Chicago & Alton, in Madison County. Capital stock, $25,000. Incorporators: William E. Hoblitzelle, R. A. Bull, E. J. Gaylor, W. F. Stout and Arthur T. Morey. Principal office, Granite City, Ill.

INDEX & NORTHERN.—Incorporated in Washington to build a railroad from Index, on the Great Northern, northwest to Mineral City, about 16 miles. Capital stock, $1,000,000. Incorporators: C. F. Naething, of New York, and T. E. Ellis and John S. Jurey, of Seattle, Wash.

IOWA & NORTHWESTERN.—J. F. Lacock, Ch. Engr., Waterloo, Iowa, advises us that this company probably will let construction contracts in April. The line will be 100 miles long, extending from Waterloo to Stanwood, Iowa. Right-of-way is partly obtained. Survey has been run and capital secured. Stephen B. Howard is Pres., 5 Nassau St., New York. Noted on Feb. 7.

KANSAS CITY, MEXICO & ORIENT.—Company contemplates building a branch from San Angelo to Kerrville, Tex., and surveys may be made shortly. Nothing has been definitely decided upon. M. P. Paret is Ch. Engr., Kansas City, Mo.

KANAWHA & WEST VIRGINIA.—V. E. Wenzel, Asst. Secy. of the Blue Creek Coal & Land Co., Scranton, Pa., states that the extension of the Kanawha & West Virginia R. R. is to be financed by the West Virginia Coal & Lumber Co., just organized with $5,000,000 capital and $5,000,000 of bonds authorized. The road is to be extended up the Meadow and Gauley Rivers. N. C. Van Natta is Ch. Engr., at Charleston, W. Va.

LYNCHBURG BELT LINE & CONNECTING R. R.—Incorporated in Virginia, to build a belt railway 22 miles long at Lynchburg, Va., passing through the counties of Appomattox, Campbell and Bedford. This is a Norfolk & Western project. Capital stock, $25,000. Incorporators: L. E. Johnson, Pres., Roanoke, Va.; William G. MacDowell, Joseph I. Doran, Theo. W. Reath, G. C. Calahan, E. H. Alden, Secy., and Thomas Pinckney, all of Philadelphia, Pa.

MINNESOTA TRANSFER.—The Board of Directors of the Minnesota Transfer has authorized improvements in the yards to cost $300,000. Work will be started in the spring. M. J. Dooley is Supt., St. Paul, Minn.

MONTEREY, FRESNO & EASTERN.—A. D. Bowen, Pres., 943 Van Ness Ave., San Francisco, Cal., advises us that this company, recently incorporated, will let contracts about March 15. Company proposes to build a steam railway from Monterey to Fresno, Cal., 140 miles, passing through Salinas, San Juan, Hollister and Madera. Surveys have been made and right-of-way and capital secured. F. M. Fairchild, Monterey, Cal., is Ch. Engr.

NORTH LOUISIANA.—This company has been organized to build a railroad from Cleora to Lake Providence, La. Capital stock, $150,000. Stockholders: W. E. Farrell, of Cleora; R. E. Farrell, of Little Rock, and Herman Kahn, of Little Rock, Ark. William E. Farrell is Pres.; R. E. Farrell, Vice-Pres.; Herman Kahn, Secy. and Treas.

PORTLAND & RUMFORD FALLS.—A bill introduced in the Maine Legislature authorizes an extension of this road from Poland south to Portland, Me., about 35 miles, through the towns of New Gloucester, Gray, North Yarmouth, Cumberland and Falmouth. Hugh J. Chisholm is Pres., Portland, Me.

PUGET SOUND, SKYHOMISH & EASTERN.—This company has been incorporated in Washington with capital stock of $500,000 to build a railroad from Index to Mineral City. The headquarters are at Everett, Wash. The incorporators are: Nicholas Rudebeck, E. H. Guie and S. P. Eckl. (See Index & Northern.)

SOUTH TEXAS & GULF.—This company has been incorporated in Texas with $40,000 capital, to build a line about 35 miles long from a point near Artesia, on the International & Great Northern Railroad, west to Carrizo Springs. The incorporators are: W. H. Myers, A. W. Raht, C. S. See and F. P. Neville, of Henrietta, Ind. T.; J. C. Davis, of Temple; John J. Reimers, Charles M. Wright, A. M. McElwee, R. H. Westlake and M. Schott, of Fort Worth, Tex. George B. Jenkinson, 35 Nassau St., New York, is interested. George D. Drumheller, San Antonio, Tex., is Engr.

ST. LOUIS & OKLAHOMA SOUTHERN.—Incorporated in Missouri to build a railroad from Pineville southeast 20 miles. Incorporators: I. E. Sturges, J. N. Christensen, O. St. John, A. W. Noel and C. D. Dennett, of Pineville, Mo.

ST. LOUIS, SPRINGFIELD & OKLAHOMA WESTERN.—Company has been incorporated in Oklahoma to build a railroad from Lawton, Okla., east to Sulphur, Ind. T., and thence northeast via McAlester and Stigler to Salislaw, Ind. T., a distance of 233 miles. Capital stock, $3,250,000. Incorporators: G. S. Stocker, Stigler, Ind. T.; W. T. Douglass, R. Downing and A. D. Goodnough, Sulphur, Ind. T.; J. J. Beall and J. D. Jennings, Oklahoma City, Okla. Headquarters, Lawton, Okla., and Sulphur, Ind. T.

TENNESSEE.—The State Railroad Commission is reported to have recommended that the State build a branch railroad from its coal mines near Petros to Oliver Springs, twelve miles. Charles H. Love is Secy. of Railroad Commission, at Nashville, Tenn.

TRANS-CONTINENTAL.—The following contracts have been awarded by the National Trans-Continental Commission, P. E. Ryan, Ottawa, Secy.: Sections 1, 4 and 5, to the GRAND TRUNK PACIFIC CONSTRUCTION CO. Section 2, LYONS & WHITE, Ottawa, Ont. Section 3, M. P. & J. T. DAVIS, Ottawa, Ont. The price of each section has not been announced, but the 457 miles will cost $13,000,000, or a little more than $30,000 per mile. See Feb. 21.

WADESBORO, BROWN CREEK & LANCASTER.—This company has been organized at Wadesboro, N. C., to build a railroad from Wadesboro, via Brown Creek and Foxville, to Lancaster, S. C., to develop timber. The projectors are: Henry Haynie, T. B. Barrett, C. M. Burns, John W. Gulledge, T. R. Tomlinson, A. L. Leggett, G. W. Huntley, J. W. Odom, W. L. Rose, Fred J. Coxe, K. W. Ashcraft, T. J. Watkins, I. H. Horton, R. L. Hardison, T. J. Covington, Dr. J. H. Bennett, H. H. McLendon and John T. Patrick.

WICHITA FALLS & NORTHWESTERN.—This road has been surveyed from Wichita Falls, Tex., northwest 40 miles toward Mangum, Okla. Grading has been completed from Wichita Falls to Red River, 17 miles, and twelve miles of track have been laid. Grading is in progress on ten miles of line north from the river. J. P. NELSON & CO., of San Antonio, Tex., are the contractors. J. A. Kemp is Pres.; Frank Kell, Vice-Pres. and Gen. Mgr., and J. W. Field, Ch. Engr., all at Wichita Falls, Tex.

WOLF, MEGANTIC & LOTBINIERE.—Right-of-way has been secured for this road from Lime Ridge, Wolf County, Que., to the city of Quebec, about 100 miles, and subsidies have been secured from the Dominion and Quebec governments. W. H. Lamby is Secy., Inverness, Que.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ROCHESTER, N. Y.—The Rochester Ry. Co. may build 20 miles of new track this summer, according to press reports. E. J. Wilcoxen, Rochester, is Supt.

ATLANTIC HIGHLANDS, N. J.—The Jersey Traction Co. has made application to the County Board of Chosen Freeholders for a franchise to construct an electric railway at Atlantic Highlands from the pier through the borough, to connect with the main line.

LEDERACHSVILLE, PA.—We are officially informed that the Lederachsville & Pennsburg Electric R. R. Co. will build the proposed line between Lederachsville, Pennsburg and Allentown, Pa., 30 miles, with its own forces. Right-of-way between Lederachsville and Pennsburg is secured and survey is made. George Hoeger is Pres., Norristown, Pa. W. C. Riffert, of Dauphin, Pa., is Ch. Engr. Noted on Feb. 14.

PITTSBURG, PA.—The Squirrel Hill St. Railway Co., capital $15,000, has been chartered to build a line 2½ miles long from Boundary and Joncaire Sts., Pittsburg, along Joncaire St., Woodlawn Ave., Northumberland St. and Denniston Ave. M. J. Hosack is Pres., and Roger Knox, James M. Magee, Chas. K. Robinson and W. D. McBryan, directors.

POTTSTOWN, PA.—We are officially advised that the contract for grading, concrete work and steel bridges for the connecting link of the Boyertown & Pottstown Railway Co., between the power house at Pottstown and Swamp, Pa., was let to FINE & HARRIS, of Philadelphia, on March 2. There are to be two 70-ft. plate girder bridges and one 400-ft. plate girder steel tower viaduct, beside other small bridges on the line. The McCLINTIC-MARSHALL CONSTRUCTION CO. received the contract for the steel work through Fine & Harris. This line forms the connecting link between the Reading and the Schuylkill Valley lines of the Interstate Railways Co., thus giving a through line from Reading to Philadelphia when completed. Construction is to be of the most improved type, 75-lb. rails, stone ballasted throughout. The contracts for all material for this road have been let. The Boyertown end of the line is laid nearly to Swamp at this time. The Pottstown end of the line is completed up to the Borough line. It is expected that it will be completed and ready for operation about July 1, 1907. The construction work is under the supervision of Thomas K. Bell, Ch. Engr., Philadelphia, and directly in charge of Claude Bryan, Division Engr.

ATLANTA, GA.—At a recent meeting of the Georgia Railway & Electric Co., of Atlanta, plans for rebuilding the company's line in Atlanta, the extension of other lines, the construction of a new line to Hapeville, the addition of new trolley cars, the erection of new car barns and a repair shop were submitted and approved. These improvements represent several hundred thousand dollars, and will be worked out and completed before the end of 1907, active work starting within 30 days, according to local press reports. One of the most important improvements will be the construction of new car barns at the Fulton County plant. These barns will be of brick and steel construction, fire-proof, with a capacity of 60 cars. The new repair shops will also be fireproof and of the same material, and include a blacksmith shop, machine shop, carpenter shop and planing mill. Both the new shops and the car barns will be completed during the summer. It is expected that the Hapeville line will be completed by Aug. 1. In the rebuilding of the old lines the 40-lb. and 50-lb. rails, now in use, will be replaced by 90-lb. rails. The line to East Lake Junction will be rebuilt with heavy rails, a distance of four miles, the Decatur and Stewart Ave. lines double-tracked a distance of over a mile each, and the Old Soldiers' Home line will be entirely rebuilt a distance of two miles. This is only a small part of the work included in the improvements. Thomas K. Glenn is Vice-Pres. and Mgr. of Rys., at Atlanta.

YAZOO CITY, MISS.—Kirkpatrick & Johnson, Engrs., Jackson, Miss., will prepare plans for the proposed municipal street railway. Noted last week.

PADUCAH, KY.—We are officially advised that the Paducah Southern Electric R. R. Co. will probably let contracts in about 60 days for building the proposed line between Paducah, Ky., and Hickman, Ky., via Union City, Tenn., 72 miles. Surveys have not been made nor has right-of-way been obtanied. Officers are not elected. Noted on Feb. 14.

LOUISVILLE, KY.—The Louisville "Post," on Feb. 27, stated that "an increase in capital stock by the Louisville Traction Co. from $14,500,000 to $17,500,000 is under consideration by the stockholders. The $3,000,000 additional will be in common stock. The Traction Co. is the holding company of the Louisville Railway Co. and the $3,000,000 derived from the common stock will be used for the improvement of the city railway here. It will be expended on betterments and extensions. While no radical changes are contemplated, the expenditure of this money would result in a number of new lines and a general improvement." C. L. Christopher is Supt. of Construction.

WAPAKONETA, OHIO.—The Minster, Loramie & Southern Railway Co., of this city, has been incorporated, with a nominal capital stock of $10,000, by J. H. Goeke, William Schulenberg, F. M. Horn, R. J. Depenbrock and R. B. Henderson. The proposed line will extend from Minster to Versailles, connecting with the Western Ohio at the former point, and Southern Ohio lines at the latter.

YPSILANTI, MICH.—According to the Detroit "News," at the annual meeting of the Board of Commerce of Ypsilanti, J. L. Millspaugh, Supt. of the Detroit, Jackson & Chicago Electric Railway Co., formerly the Detroit, Ypsilanti, Ann Arbor & Jackson Ry., and recently bought by the Detroit United, announced that the road will extend its line from Saline, through Clinton and Tecumseh to Adrian.

BELLEVILLE, ILL.—The Belleville & Interurban Railway Co. has been incorporated, with capital stock of $100,000, to build an electric railway between Belleville and Smithton, a distance of seven miles. The directors are: Jacob Gundlach, Jr., Benjamin A. Gundlach, R. W. Hofsommer and George Hippard; and Thomas A. Bell, Commercial Bldg., St. Louis, Mo.

WACO, TEX.—The City Council has granted right-of-way into this city to the Buckeye Transit Co., which proposes to build an electric railway connecting Waco, Marlin, Temple and other points. Dr. T. M. Barnes, of Fort Worth, Tex.; J. S. Sanford and J. B. Coffinberry, of Lorain, Ohio, are interested.

FORT WILLIAM, ONT.—J. L. Davidson, Ch. Engr. of the Mount McKay & Kakabeka Falls Ry. Co., Fort William, advises us that this company proposes to build a line from Fort William to Kakabeka Falls, a distance of 30 miles. Surveys are made and capital and right-of-way are secured. It is planned to have work under way by May. 1. W. F. Hogarth is Pres., Fort William.

SANTA ANA, CAL.—We are officially advised that survey for an electric railway between Santa Ana and Huntington Beach has been completed by S. H. Finley, C. E., of Santa Ana, who is now securing the right-of-way. The line will be ten miles in length. Title of company which will build the railway has not been decided upon yet.

SAN FRANCISCO, CAL.—The Ocean Shore & Eastern Railway Co., capitalized for $3,000,000, has been incorporated to build an extension of the Ocean Shore line from Santa Cruz east and southeast to Watsonville, 20 miles. The survey has been completed and the construction will commence at once. The incorporators are: J. Downey Harvey, of the Ocean Shore Ry.; J. A. Folger, Woodside; Charles Carpy, Charles C. Moore and Burke Corbet. The road will pass through Soquel and Aptos.

OAKLAND, CAL.—The Oakland Traction Co. will make many improvements to its system, it is announced. Edward M. Boggs is Engr., 710 San Pablo Ave.

SANTA CRUZ, CAL.—The Union Traction Co. will change its system from narrow gage to standard-gage. It operates 15 miles of railway. S. W. Coleman is Gen. Mgr. and Pur. Agt.

VALLEJO, CAL.—The Va[illegible] & Northern Ry. Co. has filed amended [illegible]ies of incorporation providing for [illegible] extension to Sacramento. Company was [illegible]rporated to build an electric line 70 [illegible] long from Vallejo to Woodland, by [illegible] of Cordelia, Napa Junction, Suisun and [illegible]rfield. The proposed line is to be 105 [illegible] long. The new plan is to place Suisun [illegible] Fairfield on a branch road, and the thro[illegible] route, which will traverse the Junction [illegible] north to Vallejo, will run straight to [illegible]ville, Woodland and Sacramento. The [illegible] will place its water terminal in Vallej[illegible] operation on four of the fastest steamers [illegible] will place the bay in service between [illegible]o and San Francisco. The directors a[illegible] Deizier, Jr., George S. Lakie, [illegible]rancis Kinsey and John C. Veitch, of [illegible]ad, and T. T. S. Gregory, of Suisun. T[illegible] capital stock is $2,500,000, of which $10[illegible] has been subscribed. Noted on Jan. 1[illegible]

BARRIE, ONT.—We are of[illegible]lly advised by the Board of Trade tha[illegible] negotiations between the town of Barri[illegible] and Frederic Nicholls for an electric ra[illegible] franchise have been dropped, and there [illegible] no prospect at present of their revi[illegible] Noted on Dec. 6, 1906.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

ELLSWORTH, ME.—We are officially advised that Sellers & Rippey, Consult. Engrs., Stephen Girard Bldg., Philadelphia, Pa., have awarded contract for turbines for the Bar Harbor & Union River Co.'s plant at Ellsworth, to the S. MORGAN SMITH CO., York, Pa. The GENERAL ELECTRIC CO., 84 State St., Boston, Mass., has contract for the complete electrical equipment of the hydro-electric power station now under construction. J. A. Leonard, Ellsworth, is Engr.

PORTSMOUTH, N. H.—Bids are asked until 11 a. m., March 30, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for supplying a 1,000-KW. generating set and accessories, for the Navy Yard, Portsmouth. H. H. Rosseau is Ch. of Bureau. Specifications are on file at the office of the Engineering News, New York.

SPRINGFIELD, MASS.—It is reported that the Springfield St. Ry. Co. is contemplating enlarging its power plant and will probably add at least one generator of 2,000-KW. capacity in the near future. Henry C. Page is Mgr.

FALL RIVER, MASS.—A power plant, 300 × 140 ft., will be erected by the American Thread Co., and will have a capacity of 2,400 HP. Samuel S. Freen, Holyoke, Mass., is Arch. New York offices, 260 West Broadway.

SALISBURY, MASS.—Arrangements are being made by the Haverhill & Amesbury St. Ry. Co., to erect sub-station on Ring's Island. The company has applied to the Selectmen of Salisbury for permission to erect poles and string wire through the town for its transmission lines. The changes proposed by the company in this place will cost about $30,000. L. E. Lynde, Merrimack, Mass., is Supt.

DEPOSIT, N. Y.—The Deposit Electric Co. is considering installation of a 250-HP. unit, a Corliss engine and an additional boiler, and a dynamo of 100 KW. Morris Knapp is Mgr.

WATERTOWN, N. Y.—The New York Air Brake Co., 66 Broadway, New York, has awarded contract to C. D. HODGE & CO., city, for the reconstruction of its electric power generating station here.

NEW YORK, N. Y.—We are officially advised that the Brooklyn Union Gas Co., 180 Remsen St., Brooklyn, is to have a gas tank built by BARTLETT, HAYWARD & CO., 100 Broadway. JOHN H. DEEVES & BRO., 287 Fourth Ave., have contract to construct the foundations.

Bids are asked until 2.30 p. m., March 18, by Robert W. Hebberd, Comr. of Public Charities, for installing two new boilers in the power-house and making permanent alterations to the existing steam plant at the Kings County Hospital, Boro. of Brooklyn.

MIDDLEVILLE, N. Y.—The Electric Light Co. is planning to build a power-house in the spring and install a 75-KW., 2,300-volt, single-phase, 60-cycle generator belted to a new pair of 27-in. horizontal turbines.

BUFFALO, N. Y.—Bids of the Buffalo Gas Co. to furnish gas for street lighting and private consumers for five years, beginning March 1, were opened Feb. 26, at the office of the Commissioner of Public Works. There being but slight decrease of the present rates, the Mayor directed the Corporation Counsel to proceed with investigations of the company through the State Gas and Electricity Commission. Francis G. Ward is Comr. Pub. Works.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 18, by C. B. J. Snyder, Supt. of School Bldgs., for installing electric equipment in Public School No. 104, on the corner of 92d St. and Gelston Ave., Boro. of Brooklyn.

ATLANTIC CITY, N. J.—The City Council is considering placing all boardwalk electric light wires in conduits. George Gale, Chn. Electrical Com. of the City Council, has been authorized to engage an engineer to prepare plans and supervise the proposed work.

WASHINGTON, D. C.—Bids are asked until March 16 by Elliott Woods, Supt. of U. S. Capitol Bldg. and Grounds, for furnishing w.-i. pipe, pipe bends, c.-i. fitting and gate valves for hot water heating work for the House of Representatives Office Building.

FAYETTEVILLE, N. C.—Plans are being prepared by the James D. Lalor Engineering Co., Munsey Bldg., Washington, D. C., for a power plant for the Fayetteville Ry. & Power Co. The building will be constructed of brick and steel. Complete equipment will be installed.

SPARTANBURG, S. C.—The Pacola Mfg. Co. let contract to GEORGE H. CUTTING & CO., 11 Foster St., Worcester, Mass., for constructing power-house and chimney.

FLOVILLA, GA.—W. T. Smith and associates have petitioned for a charter to install an electric plant for lighting the town and running electric cars to Indian Spring.

GADSDEN, ALA.—The Alabama City, Gadsden & Attalla Ry. Co. is completing arrangements for making various improvements in its plant and system, including the construction of a gas plant to have a producing capacity of 40,000 cu. ft. of illuminating gas a day, and receiving tank with a capacity of 125,000 cu. ft., and eight miles of mains to light practically the entire city. John D. Clowery is Mgr., Gadsden.

HUNTSVILLE, ALA.—The Huntsville Ry., Light & Power Co. has decided to increase the capacity of its power plant, and machinery involving a cost of approximately $40,000 will be purchased and installed. Francis N. Lawton is Supt.

NATCHEZ, MISS.—Bids are asked until 4 p. m., May 1, by George T. Eisele, City Clerk, for lighting the City of Natchez for a term of ten years, from March 1, 1909. (Advertisement, Engineering News.)

BATON ROUGE, LA.—Stone & Webster, 84 State St., Boston, Mass., have purchased the plant of the Baton Rouge Electric & Gas Co. and have plans under way for rebuilding and renovating the entire plant. C. H. Kretz, Baton Rouge, is Mgr.

CHATTANOOGA, TENN.—It is reported that the Chattanooga Implement Co. is having plans prepared by Adams & Alsup for proposed power plant. The building will be constructed of pressed brick, with art glass, and will contain a dynamo of about 325 HP.

BRISTOL, TENN.—The Holston Water, Electric & Power Co. has been chartered at Bristol for the purpose of utilizing the water power in the Holston River, near Bristol, for generating electricity. A dam will be built near Bluff City, and electric power will be brought to Bristol for lighting and industrial purposes. Dr. M. L. Fowler, of Bristol, is Pres. Work on the project is to be commenced at once.

COVINGTON, KY.—The City Council is contemplating establishing an electric light plant here, and has appropriated $20,000 for that purpose.

BOWLING GREEN, KY.—Bids are asked until April 15 for constructing the plant of the Green River Hydro-Electric Co. Estimated cost, $60,000. H. von Schon is Consult. Engr.

WEST POINT (Lisbon post-office), OHIO.—John Tufel, Cleveland, has let general contract to the CLEVELAND CONSTRUCTION CO., Cleveland, for a two-story brick and stone power plant, 138 x 130 ft., to be erected at West Point, for the Youngstown & Ohio River R. R. Co., Salem, Ohio. Charles S. Thrasher, Cleveland, is Gen. Mgr.

YOUNGSTOWN, OHIO.—The General Fireproofing Co. has let general contract to HELLER BROS. for a one-story steel and concrete addition to power plant, at $6,000.

CHICAGO, ILL.—A permit has been granted to Armour & Co., 205 La Salle St., for the erection of a power-house in the stock yards, at a cost of $130,000. J. Ogden Armour is Gen. Mgr.

AITKIN, MINN.—Dr. C. S. Kathan is making arrangements to construct a power plant here to cost about $25,000.

DAWSON, MINN.—It is reported that construction of an electric light and waterworks plant, to cost $28,000, is under consideration.

LEXINGTON, NEB.—It is reported that the Lexington Mill & Elevator Co. will install a street lighting system at once. Both arc and incandescent lamps will be used.

KANSAS CITY, MO.—The Metropolitan St. Ry. Co. has let general contract to TURNER BROS., Junction Bldg., for constructing a one-story brick and concrete, composition roof, sub-station, 62 x 105 ft., for power plant, to be erected at Electric Park. Estimated cost, $9,000. Charles N. Black is Gen. Mgr. and Ch. Engr.

CENTRALIA, MO.—See under Water Supply-Irrigation.

SNYDER, OKLA.—See Under Water Supply-Irrigation.

CAPITOL HILL, OKLA.—H. B. Hamlin and C. M. Baker have secured franchise for installation of electric light plant. An option has been secured on site on which to erect plant, and it is estimated that about $50,000 will be expended.

SNYDER, OKLA.—See under Water Supply-Irrigation.

LASCRUCES, N. MEX.—The Lascruces Electric Light & Ice Co. will install a new boiler this coming spring, and also a new engine for day service. B. L. Berkey is Mgr., El Paso, Tex.

TACOMA, WASH.—Improvements costing about $50,000 are contemplated at the lighting plant in the business section. Heavy copper wires and larger transformers are to be installed. It is stated that about 150,000 lbs. of copper wire will be required, and the cost of this part of the work alone will be about $10,000. A. L. Thorn is City Electrician.

SPOKANE, WASH.—We are officially advised that surveys and reports in connection with the power development on Pend d'Oreille River will be completed about Aug. 1, 1907. Wilbur S. Yearsley, Lindelle Block, Spokane, is Pres. Pend d'Oreille Development Co.

PROSSER, WASH.—EARLES & JOYCE, of Seattle, have secured the contract for the entire construction of the head works and power plant at Priest Rapids, on the Columbia River, for the Hanford Irrigation & Power Co.'s irrigation system. The contract calls for an expenditure of $300,000. Work will begin immediately and will be completed during 1907. H. K. Owens is Ch. Engr.

ASTORIA, ORE.—The Astoria Electric Co. has awarded contract to W. S. DOLE & CO., of Portland, for the construction of its new gas plant in this city, work on which has already been commenced, and is to be completed in 60 days. The contract price is in the neighborhood of $12,000. C. A. Coolidge is Gen. Supt.

SAN RAFAEL, CAL.—The San Rafael Gas & Electric Co. has decided to install a substation at the power-house of the North Shore, near the Alto station, to improve the service of the company in Southern Marin. Wallace Foster is the Local Mgr.

HAMILTON, ONT.—The Board of Works will ask for bids shortly for 5,000 arc lamps, 1,000 gas lamps, with a view of installing a municipal lighting plant.

WINNIPEG, MAN.—Bids are asked until March 13 for street lighting. The articles needed are: 200 arc lamps and cut-outs, two 100-light arc regulators with necessary panels, and twelve lightning arresters. J. A. Cambridge is the City Electrician.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BUFFALO, N. Y.—The State Canal Board has granted permission to the Delaware, Lackawanna & Western R. R. Co. to construct fixed bridge over Ohio Basin, at Miami St., Buffalo, for its railroad line, to take the place of drawbridge now located at this point. The work is to be started soon. R. M. White, at Buffalo, is Division Engr.

NEW YORK, N. Y.—Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., March 14, for alteration of Manhattan steel viaduct and masonry approach and construction of bridge and tunnel entrances for Williamsburg (New East River) Bridge over East River, between the Boroughs of Manhattan and Brooklyn.

HARRISBURG, PA.—Applications have been made to the City Council for permission to build Philadelphia & Reading Ry. bridges at 13th and 15th Sts. William Hunter, at Philadelphia, Pa., is Ch. Engr., Bridges and Roadway.

MILLHEIM, PA.—Bids are asked by G. B. Segrist, Pres. Common Council, until March 18, for constructing bridge across Elk Creek.

AUDUBON, PA.—The Montgomery County Historical Society recently decided to erect a memorial bridge across Schuylkill River, at Audubon, below Valley Forge, on the site of "Sullivan's bridge," used by Washington's Army when it evacuated Valley Forge. Joseph Fornance was re-elected President.

COURTLAND, VA.—The contract has been let for erection of steel bridge to be constructed by Southampton and Nansemond Counties across Blackwater River to the ROANOKE BRIDGE CO., of Roanoke, Va., for $9,000.

SHREVEPORT, LA.—The New Orleans & Northeastern R. R. Co. will construct steel bridge across Red River at this place. Estimated cost, $900,000. C. C. Harvey is Pres.

BEAVER, KY.—Bids are asked by the County Judge, Beaver, Ky., until March 12 for constructing bridge across Big Sandy River at this place. Estimated cost, $15,000.

LOUISVILLE, KY.—SILAS CARR, of Indianapolis, Ind., has been awarded contract by the Louisville & Eastern R. R. Co., Percival Moore, Gen. Mgr., for constructing all bridges to be erected between Louisville and Frankfort.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., March 16, for constructing concrete steel culvert, Royalton Township, and concrete steel bridge, Orange Township. A. B. Lea is County Surv.

DAYTON, OHIO.—Bids are asked by T. J. Kauffman, County Audr., until March 16, for constructing two concrete abutments and one concrete pier for bridge across Twin Creek.

ST. JOSEPH, MICH.—A 24-ft. lift bridge will be constructed. Estimated cost, $60,000.

CHICAGO, ILL.—The Lake Shore & Michigan Southern Ry., Pennsylvania R. R., Baltimore & Ohio R. R., Indiana Harbor R. R., and Lake Shore & Eastern Ry. Cos. have awarded contracts to the STROBEL BRIDGE CO., Pittsburg, Pa., for constructing five bascule bridges across Indiana Harbor Canal, aggregating $400,000. The work is to be completed Sept. 1.

ROCK ISLAND, ILL.—We are officially advised that BAYNE & HEWETT, of Minneapolis, Minn., will be awarded contract for rebuilding the U. S. bridge and viaduct between this city and the Rock Island Arsenal, at $109,197. Bids were received by Col. S. E. Blunt, Ord. Dept., U. S. A.

SHAWTON, WIS.—It is reported that a bridge will be constructed at this place.

EMMETSBURG, IOWA.—We are officially advised that the County Commissioners have awarded contract for furnishing material, constructing and repairing all bridges during the present year to the STANDARD BRIDGE CO., of Omaha, Neb. S. R. Stedman is County Audr.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works, until 11 a. m., March 13, for constructing brick culvert under Forest Ave. George D. Dobson is City Engr.

MANKATO, MINN.—The County Board recently awarded the HENNEPIN BRIDGE CO. contract for constructing steel bridge across Little Cobb River, in sections 4 and 9.

TOPEKA, KAN.—The Board of County Commissioners of Franklin County have been given authority to construct steel bridge over Marais Des Cygres River.

HOLDENVILLE, IND. T.—The Canadian Bridge & Ferry Co. has been formed at this place by citizens. The company contemplates constructing steel bridge across Canadian River.

BELMA, WASH.—Bids are being received by the County Commissioners for constructing 210-ft. steel or wood bridge, with concrete piles.

SPOKANE, WASH.—Plans are being prepared by the Northern Pacific Ry. Co. for erecting steel bridge across Lawyer Canyon on Camas Prairie, where the Culdesac branch crosses the canyon. The bridge will be constructed entirely of steel, with exception of the piers, which will be of concrete. It will be 1,300 ft. long and 275 ft. high at the highest point and approximately 2,500 tons of steel will be used in the structure. W. L. Darling, at St. Paul, Minn., is Ch. Engr., Bdgs. and Roadway.

WENATCHEE, WASH.—The GATES & ROGERS CONSTRUCTION CO., of Chicago, has been awarded contract for constructing Chicago, Milwaukee & St. Paul Ry. bridge, across Columbia River, about 50 miles south of Wenatchee. The bridge will be about one mile in length and of steel construction. Estimated cost, $1,000,000. C. F. Loweth, at Chicago, Ill., is Engr. and Supt., Bridges and Roadway.

PORTLAND, ORE.—It is reported that bids will soon be asked for constructing a 558-ft. reinforced concrete bridge, 56 ft. wide, with nine spans, on pile foundation and having capacity of 150 lbs. live load per sq. ft. Estimated cost, $85,000. Douglas W. Taylor is City Engr. Thomas C. Devlin is City Audr.

WINTERS, CAL.—At a recent joint meeting of the Supervisors of Solano and Yolo Counties it was decided to construct concrete bridge, 470 ft. long, across Putah Creek. Estimated cost, $30,000.

ATHENS, ONT.—The PETROLEA BRIDGE CO. has been awarded contract for constructing Wiley bridge across Thames River at this place.

OTTAWA, ONT.—Bids are asked by the Trans-Continental Railway Commissioners, P. E. Ryan, Secy., until March 13 for construction of six steel bridges at Wagiboon River, Winnipeg River, C. P. R. crossing, Whitemouth River and Brokenhorn River. A. N. Molesworth, at Ottawa, is District Engr.

WINNIPEG, MAN.—The Chairman of the Over-head Bridge Committee, with associates, have agreed with the Canadian Pacific Ry. Co. for construction of over-head bridge, to cost $70,000. The entire length and its approaches will be 2,175 ft. The C. P. Ry. track will be bridged by spans 212 ft. long and 258 ft., respectively; girders on either side, 103, 109 and 129 ft.; floor elevation, 62-ft.; roadway of bridge, 24 ft. wide and clear height of 26 ft., with foot-ways of 6 ft.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

PROVIDENCE, R. I.—James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., has awarded to HORTON & HEMENWAY, 683 Atlantic Ave., Boston, Mass., contract for the construction of the U. S. post-office and court-house, Providence, R. I., at the net amount of $350,685; time of completion, Oct. 1, 1908.

BRIDGEPORT, CONN.—Meloy & Beckwith, Archs., P. O. Arcade, Bridgeport, are preparing plans for an apartment house that will cost $150,000 and provide 35 suites. According to the plans the apartment block will have a restaurant attached, but the occupants of it can have suites with or without meals. There will also be a vacuum system, gas and electric lights, telephones, elevator and all other modern conveniences, including steam heat.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 14, by the Park Board for completion of the excavation for an addition to the Metropolitan Museum of Art, to be known as the Central North Wing, located in Central Park, on the west side of Fifth Ave., opposite 83d St. Moses Herrman is Pres.

We are officially advised that Neville & Bagge, Archs., 215 West 125th St., have plans for an apartment building at corner of 159th St. and Broadway, for the Fleuri Construction Co., 1800 Amsterdam Ave. The building will be six stories high, 100 x 115 ft., light brick, limestone and terra cotta, structural steel and iron, with fireproofing, tin roof, iron stairs, electric and gas fixtures, etc. Estimated cost, $250,000.

Plans have been filed by William D. Johnson, Arch., Westchester Ave. and Southern Boulevard, for a 6-story flat building, 188 x 99 ft., to be built for the American Real Estate Co. Estimated cost, $220,000.

NEW YORK, N. Y.—We are officially advised that Howells & Stokes, Archs., 100 William St., have plans for a store and loft building to be erected at 45-49 John St., for the North Ward Realty Co., 100 William St. The structure will be twelve stories high and 75 x 105 ft. The first one or two stories will be constructed of limestone, and the rest of brick. Contract will be let in about a week, after which building operations will begin. Estimated cost, $250,000.

Plans have been filed with the Building Department for a 6-story brick flat building, 96 x 97.1, to be erected at the corner of Riverside Drive and 97th St. R. F. Lyons, 31 Union Sq., is Arch. and Owner. Estimated cost, $200,000.

A 12-story apartment house is to be built on the premises at No. 636 Fifth Ave., 36.1 x 131 ft., at the corner of 51st St., by Thomas R. A. Hall. The property is opposite St. Patrick's Cathedral.

NEW YORK, N. Y.—We have been officially informed that Lawlor & Haase, 69 Wall St., have plans for a 6-story apartment building, at 13-19 East Tenth St., for the Mayfield Construction Co., 26 Cortlandt St. The building will be constructed of Harvard brick and limestone, 97.6 x 94.9 ft., with gravel roof, fireproofing, iron stairs, electric and gas fixtures, etc. Estimated cost, $125,000.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 18, by C. B. J. Snyder, Supt. School Bldgs., for additions and alterations to the sanitary work and gas-fitting of Public School No. 81, on 119th and 120th Sts., about 175 ft. west of Seventh Ave., Boro. of Manhattan; also for forming a supply room for the Biological Laboratory of Wadleigh High School, on 114th and 115th Sts., between Seventh and Eighth Aves., Boro. of Manhattan.

BROOKLYN, N. Y.—Plans for the proposed Eighth Ward Market have been accepted. The market will have space for 150 stores, each 20 x 60 ft. These stores will be built of fireproof material, will be simple in design, and will have light, power and cold air. All buildings will have cement floors, so that they may be washed and flushed daily, and the garbage and refuse will be carried to a central incinerating plant by an overhead trolley system.

Following is a list showing what is to be constructed and the estimated cost: Pier, $55,350; recreation shed on pier, $128,000; 150 market stores, $1,050,000; bulkheading, $60,000; pile sheathing, $26,000; granite pavement on concrete, $148,000; overhead trolley system, $35,000; incinerator, power, refrigerating and lighting plant, $150,000; administration building, $100,000. In addition to the above work, there will be dredging, sewerage and drainage, and railroad construction. Total estimated cost, $2,057,282. David F. Moore is Supt. Bureau of Public Bldgs., Boro. of Brooklyn.

LITTLE FALLS, N. Y.—Bids are asked until 3 p. m., April 9, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing U. S. post-office and installing heating apparatus, and electric conduits and wiring therein, at Little Falls. (Advertised, Engineering News.)

BUFFALO, N. Y.—The Larkin Co., 663 Seneca St., will soon let contracts for construction of a 10-story fireproof storage warehouse, 280 x 300 ft., at an estimated cost of $500,000.

CAMDEN, N. J.—Bids are asked until March 11 for the erection of four new schools for which Seymour & Paul A. Davis, 1600 Chestnut St., Philadelphia, Pa., are preparing plans. Three of these schools will be 12-room buildings and the other will be an 8-room building. Estimated cost of work, $160,000. J. W. F. Bleakly is Supt. Bd. of Education.

ATLANTIC CITY, N. J.—Bids are asked until 3 p. m., March 20, by James Knox Taylor, Superv. Arch., Washington, D. C., for additions and alterations at the U. S. post-office, Atlantic City.

WASHINGTON, D. C.—A permit has been granted for erection of a 5-story brick hotel at 233 New Jersey Ave., S. E., at a cost of $200,000, for the Congress Hall Hotel Co. Harding & Upham, 729 15th St., N. W., are the Archs. JAMES L. PARSONS, Pennsylvania Ave. and 13½ St., N. W., is the builder.

Elliott Wood, Supt. of the U. S. Capitol Building and Grounds, has awarded to RULLMAN & WILSON, Mount Royal and Lafayette Aves., Baltimore, Md., contract for furnishing the interior marble work of the rotunda section of the Senate office building, at $225,000. He has also awarded to B. A. & G. N. WILLIAMS, 5 East 42d St., New York, contract for the work for the conference room for the Senate office building, at $121,000. The PARKERSBURG MILL CO., of Parkersburg, W. Va., has received the award for the sash doors and frames for the House office building, at $13,482.

At a meeting of the Board of Governors of the Bureau of American Republics, held recently, the decision of the Supervising Committee to purchase what is known as Van Ness Park from George Washington University for a site for the new bureau building was approved and the Committee was authorized to make the purchase. A plan for a competition for plans for the new building, which will cost about $800,000, was prepared.

Bids are asked until March 9 by Wood, Donn & Denning, Archs., 808 17th St., for constructing a Masonic Temple at 13th and K Sts., and New York Ave. The structure will be of fireproof construction, brick, stone and steel, seven stories high. Estimated cost, $350,000.

RALEIGH, N. C.—Plans have been prepared by Frank P. Milburn & Co. for adding a wing to each end of the present capitol building. Cost, $500,000.

MOBILE, ALA.—A building permit has been issued to the New Battle House Co. for erection of a hotel building on the corner of St. Francis and Royal Sts., $400,000 being given as the contract price and the SUPPLY & CONSTRUCTION CO., of New York, named as the contractors. This building is to be eight stories high, and will be fireproof. The original plans calling for two floors in the basement was changed some time ago, and there is to be put only one floor below ground. The work of excavation, which has been in progress several weeks, is now nearing completion. When the new Battle House is completed and all fixtures and structures have been put in, it will represent an expenditure of $1,000,000.

FRANKLIN, LA.—Plans have been prepared by F. B. Hull & Co., Jackson, Miss., for a court-house at Franklin. Cost, $115,000.

NEW ORLEANS, LA.—It is reported that the Audubon Hotel Co. is arranging for erection of proposed $2,000,000 hotel.

TOLEDO, OHIO.—John F. Coghlan and James Rundell are having plans prepared for a 10-story building to be built on Superior St. The property is located between Jefferson and Madison Sts., and is now occupied as a tenement. The new building will cost $125,000.

CINCINNATI, OHIO.—It is reported that M. D. Woodford intends erecting at Eighth and Walnut Sts. an 8-story concrete building to cost $275,000, to be occupied by Reins & Meiss.

The contract for branch hospital buildings has been awarded to L. P. HAZEN & CO., of Cincinnati, at their bid of $242,777, with the condition that they are to be completed before Jan. 1, 1908.

ZANESVILLE, OHIO.—Badgley & Nicklas, Archs., 1273 Euclid Ave., Cleveland, have let general contract to ROBERT H. EVANS

CO., Columbus Savings & Trust Bldg., Columbus, Ohio, for a 1-story Bedford stone church for the Second Street M. E. congregation, Rev. Dr. A. M. Courtney, pastor, Zanesville. Estimated cost, $120,000.

INDIANAPOLIS, IND.—We are officially advised that the lowest bid received for constructing the proposed coliseum at Indianapolis was that of William P. Jungclaus Co., at $614,450.

Chas. Downing, Secy. State Board of Agriculture, Room 12, State House, will receive bids for the erection of a pavilion on the State Fair Grounds as soon as plans are completed by Rubush & Hunter, Archs. Estimated cost, $100,000.

The Anderson-Zeigler Co., of Cincinnati, has ordered plans and will soon ask for bids for construction of a large fireproof theater building in this city.

CHICAGO, ILL.—Treat & Alschuler, Archs., Fisher Bldg., have prepared sketches and will make plans for a warehouse and an office building to be built on South Sangamon St., between 14th Pl. and the Chicago, Burlington & Quincy Ry. Co.'s tracks for the Spiegel House Furnishing Co., 1039 West 35th St. The warehouse will be 4-story, 85 × 225 ft., and the office building 2-story, of reinforced concrete construction and cost in all about $175,000.

CHICAGO, ILL.—Edgcomb & Co., 52 West Washington St., will enlarge its building by the erection of five additional stories, 125 × 115 ft. The building will probably be partly of steel and partly of reinforced concrete. The total cost of the improvements is estimated at $200,000, and the work will be done with day labor. Robert F. Edgecomb is Pres.

C. A. Eckstorm, Arch., 131 La Salle St., has let the plumbing contract for a warehouse building, to be erected at Erie St. and Chicago Ave., for Sprague, Warner & Co., 1 Randolph St., to HULBURT & DORSEY, 211 East Randolph St. The building is to be 7-story, 200 × 500 ft., built of brick and mill construction. Estimated cost, $800,000.

ST. PAUL, MINN.—The Minnesota Transfer Ry. Co., city, M. J. Dooley, Supt., will erect a 3-story pressed brick and cut stone fireproof office building, in its yards at Midway. It will be 80 × 100 ft. The roundhouse will be enlarged, and additional tracks will be built. The improvement will cost, complete, $300,000.

An act has been passed by the Minnesota legislature authorizing the city to issue bonds amounting to $800,000 for purchasing sites and erecting four new high schools. One to be built in the western part of the city will cost $300,000; another to be built in the central part will cost $250,000; another will be built in the Arlington Hill District, at $150,000, and the fourth will be built in the Sixth Ward, on the west side of the Mississippi River.

UNIVERSITY, N. DAK.—Bids are asked until April 3 for constructing the Carnegie Library building. J. W. Wilkerson is Secy.

PIERRE, S. DAK.—Bids are asked until June 4 by the State Capitol Commission for constructing capitol building at Pierre. The South Dakota Legislature has passed a bill, which has been signed by the Governor, appropriating $600,000 for constructing a new Capitol building. The work is to be under the supervision of a board known as the State Capitol Commission. This board consists of four members—the Governor, Secretary of State, Auditor and Commissioner of School and Public Lands. The architects are Bell & Detweiler, Northwestern Bldg., Minneapolis, Minn.

KANSAS CITY, MO.—An agreement to build passenger and freight terminals at Kansas City at an estimated cost to the railways of $50,000,000 was reached on Feb. 25, at a conference here between John M. Egan, Pres. of the Kansas City Terminal Ry. Co., representing the leading railways entering this city, and a committee of city officials headed by H. M. Beardsley, Mayor. The railways are to erect a $2,000,000 union passenger station near Grand Ave. and 22d St., on the south side, five union freight houses along the river front in the west bottoms and forty street viaducts and subways, the latter to be maintained by the railways.

ST. LOUIS, MO.—Plans are being prepared for a 6-story building for Zach. W. Tinker, Carleton Bldg., at Walnut and Moore Sts. Estimated cost, $300,000.

Mauran, Russell & Garden, Archs., Chemical Bldg., are preparing plans for a 16-story bank and office building, 149 × 127 ft., to be erected on Broadway, between Pine and Olive Sts., for the National Bank of Commerce, Broadway and Olive Sts. The building will be constructed of granite, with composition roof, plate glass, hard plaster, marble and tile work, iron store fronts, combination light fixtures, nickel plumbing, skylights, galvanized iron and copper cornices. Estimated cost, $2,500,000.

Contracts for wrecking the old buildings at the corner of Eighth and Pine Sts., and for excavating the site for the erection of a new building for the Blunt Realty Co., have been awarded. The new building will be a 4-story steel frame fireproof structure and will cover the lot which is 70 × 127 ft. It will contain seven stores on the first floor and the upper floors will be fitted up for tenants in commercial or light manufacturing business. The walls will be of vitrified brick of light color and terra cotta trimmings. All vestibules, halls and stairways will have marble wainscoting, and the building will be supplied with modern toilet rooms, electric elevators. The building was designed by F. C. Bonsack, Arch., Columbia Bldg. The principal officers of the Blunt Realty Co. are L. B. Pierce and Harvey L. Christie. Contracts for the building will be let at once. The cost will be about $125,000. The building is to be completed in September.

TYLER, TEX.—Bids are asked until 3 p. m., April 15, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing extension to U. S. post-office building and court-house at Tyler. (Advertised, Engineering News.)

DENVER, COLO.—Bids are asked until 3 p. m., April 8, by James Knox Taylor, Supervising Arch., Washington, D. C., for constructing the extension, remodeling, etc., including plumbing, gas piping, hand elevator, heating apparatus, electric conduits and wiring of the U. S. post-office and court-house at Denver.

SEATTLE, WASH.—We are officially advised that the 10-story office building to be erected by C. J. Smith, New York Block, will be of fireproof construction, brick, terra cotta, steel and concrete. The structure will be 110 × 120 ft., and will cost $300,000. Graham & Meyers, Globe Bldg., are Archs.

We have been officially informed that general contract for constructing department store for J. A. Baillargeon & Co., at Spring St. and Second Ave., has been let to P. A. BAILLARGEON. The sub-contract for steel work has been let to the AMERICAN BRIDGE CO., 42 Broadway, New York, N. Y.; for terra cotta, to the NORTHWESTERN TERRA COTTA CO.; for foundation, FRITCH & CO., Burke Bldg., Seattle. The building will be 120 × 108 ft., eight stories high, faced with glazed terra-cotta. Cost of building, $400,000; equipment, $30,000. Saunders & Lawton, Alaska Bldg., are Archs.

SEATTLE, WASH.—James H. Schack, Downs Building, is drawing new plans for the First Methodist Church, to be erected at the corner of 5th Ave. and Marion St. Cost, $125,000.

It is reported that Saunders & Lawton, Alaska Bldg., have prepared plans for a 6-story building to be erected at Second Ave., South and King St. for the Crane Co., at a cost of $200,000. L. B. Peeples, 165 Jackson St., is Mgr.

PORTLAND, ORE.—N. A. Walker will erect a 5-story brick and steel apartment house at corner of King and Wayne Sts., to cost about $125,000. Plans are being prepared by Whidden & Lewis, Concord Bldg.

LOS ANGELES, CAL.—The directors of the Consolidated Realty Co. have decided to build a 12-story office block on the corner of Sixth and Hill Sts., at a cost of about $500,000. The following named were appointed members of the building committee: John J. Byrne, A. W. Rhodes, W. E. Demming and D. A. Hamburger. Both reinforced concrete and steel construction will be considered before a design is adopted.

SAN FRANCISCO, CAL.—Plans for a 4-story brick building to be erected by M. J. Flood on the west side of Polk St., between Ellis St. and Willow Ave., have been completed by Thos. J. Walsh and John W. Carey, Archs. The lot fronts on three streets, 120 ft. on Polk St. and 77.6 on both Ellis St. and Willow Ave. On the first floor there will be several stores and the entrance to the apartments. On the upper floor will be 27 apartments, each complete with kitchen, bathroom and every modern convenience. Each apartment will have a separate entrance. The front of the building will be faced with pressed brick, and the stores glazed with plate glass and prismatic glass. The cost of the building will be about $100,000.

SAN FRANCISCO, CAL.—Foundation work has started on the hotel building to be erected on lower Powell St. The building will be for the new Golden West Hotel and the elaborate cafe of the Pabst Brewing Co. of Milwaukee. The structure is being put up on joint arrangements between the Mangels estate and the brewing firm. Estimated cost, $500,000.

PARKDALE, ONT.—J. J. Walsh & Co. will erect a number of houses this year in the suburb of Parkdale, ranging in price from $3,500 to $5,000. The total value of the houses to be erected in Parkdale this year totals over $250,000.

NEW WESTMINSTER, B. C.—E. J. Fader, of the Torpedo Towing & Tug Co. will erect a hotel this summer to cost $110,000. Plans have not yet been ordered.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

RUTLAND, VT.—Bids are being received for furnishing 1,700 ft. 6-in. and 900 ft. 8-in. c.-i. pipe and fittings. Arthur C. Grover is City Engr.

WATERBURY, VT.—Bids are asked by the Board of Public Works until 8 p. m., March 12, for constructing surface water drains in portions of West Main, North Main and Griggs Sts. The work consists of approximately the following quantities: 150 lin. ft. of 24-in. vitrified tile drain; 480 lin. ft. of 20-in. vitrified tile drain, 300 lin. ft. of 12-in. vitrified tile drain, 780 lin. ft. of 10-in. vitrified the drain, seven manholes and four inlets. R. A. Cairns is City Engr.

FALL RIVER, MASS.—Bids are asked by William Biltcliffe, Pres. Watuppa Water Bd., Fall River, until March 18, for construction of iron water tank 65 ft. in diameter and 56 ft. high. Patrick Kiernan is Supt., Fall River Water-Works.

UTICA, N. Y.—The necessary permission from the state authorities has been secured by the Consolidated Water Co., of Utica, J. V. Cockcroft, Pres., for laying 20-in. cast-iron water main underneath Erie Canal at Third Ave., and another at Lower Broad St. crossing, and an 8-in. cast-iron main underneath Erie Canal at intersection of Whitesboro and Varick Sts. This work is in connection with the extension of the company's water supply system as required by the Common Council. The work will be done this spring. A. B. Tracy is Engr. of the company.

ASBURY PARK, N. J.—We are officially advised that the RENSSELAER MFG. CO., 180 Broadway, New York, has been awarded contract for supplying ten fire hydrants, 36 to 42-in. cover, at $25.15 each. John L. Coffin is Supt. Dept. Water and Sewers.

WASHINGTON, D. C.—Bids were received March 2 by the District Commissioners, Washington, D. C., for furnishing 500 fire hydrants, as follows: Florence Iron Works, Florence, N. J., $42.50 each; A. P. Smith Mfg. Co., Newark, N. J., $43 each; American Hydrant Co., Louisville, Ky., $33.13 each, and Ludlow Valve Mfg. Co., Troy, N. Y., $77.50 each.

GATE CITY, VA.—Bids are asked until March 15 for constructing water-works. Henry Nelms is Mgr.

FRANKLIN, W. VA.—Bids are asked until March 18 for constructing water-works system. Address Dr. S. B. Johnson.

LUMBERTON, N. C.—Bids are asked until March 15 for extending water-works and sewerage systems. R. C. Lawrence is City Atty. (Advertised, Engineering News.)

ACWORTH, GA.—The city contemplates constructing water-works system.

PELHAM, GA.—F. J. WHITE & CO., of Albany, Ga., have been awarded contract for sinking well for the municipal water-works.

ELLIS, OHIO.—Bids are asked by J. G. Warren, Maj. Engrs., 415 Custom House, Cincinnati, Ohio, until 2 p. m., March 22, for constructing two cisterns near Ellis.

IRONTON, OHIO.—Bids are asked by the Board of Public Service until March 21 for construction of five well clusters and laying 4,600 ft. of 20-in. c.-i. pipe in Ohio River.

PORTSMOUTH, OHIO.—The Board of Public Service has awarded contract for furnishing car-load of 6-in. water pipe to the LYNCHBURG FOUNDRY CO., Lynchburg, Va., at $35.50 per ton, and $2.90 per ton for fittings.

DETROIT, MICH.—Bids are asked until March 13 by the Board of Water Commissioners for construction of 42-in. water main about 1½ miles in length, between Vinewood and Livernois Aves. Estimated cost, $175,000. Bids also are asked for furnishing 2,500 tons of iron pipe. Robert H. McCormick is City Engr.

CHICAGO, ILL.—We are officially advised that no bids have been received by William L. O'Connell, Comr. Dept. Pub. Wks., for furnishing and installing six steam purifiers and piping in boiler room of Chicago Ave. pumping station. Bids will soon be re-asked.

VIRDEN, ILL.—It is reported that water-works may be constructed at this place.

CHARLESTON, ILL.—It is reported that the City Water Board will soon ask for bids for installing a 2,000,000-gallon pump in pumping station.

BRUCE, WIS.—Bids will probably be asked about April 10 for constructing water-works. Estimated cost, $10,000. William Blackburn is Deputy City Clk.

BABCOCK, WIS.—D. & S. GILMORE, of Toledo, Ohio, have been awarded contract for widening, deepening and straightening Cranberry Creek for a distance of about 15 miles, to be known as main ditch or canal, to empty into Yellow River, ten miles below Babcock. The work will be done by steam dredge upon a boat. J. B. SAPIN, of Grand Rapids, Wis., has been awarded contract for constructing about 20 miles of lateral ditches, all emptying into main ditch. The lateral ditches will be dredged with walking dredges operated by gasoline power. The Cranberry Creek district comprises 20,000 acres, south and southeast of Babcock, in Wood and Juneau Counties.

CUSHING, IOWA.—Bids are asked until March 11 for constructing water-works. R. J. Pattison is Recorder.

DAVENPORT, IOWA.—The Bettendorf Axle Co. has awarded to P. V. CLARKE, of Davenport, contract for erecting reservoir for reserve water supply, having capacity of 270,000 gallons.

EMMETSBURG, IOWA.—Bids are asked until 1 p. m., April 4, for constructing drainage canals. Sim R. Stedman, County Audr. Details will be given next week.

SIOUX CITY, IOWA.—Bids are asked by G. B. Healy, Pres. Bd. Water-Works Trus., until March 20 for furnishing and erecting complete on foundation, one 6,000,000-gallon vertical triple expansion pumping engine and one battery of boilers and chimney for same, at Main St. pumping station. J. M. Lewis is City Engr.

ST. PAUL, MINN.—Bids are asked until March 25 by the Board of Water Commissioners, John Caulfield, Secy., for furnishing 25 tons lead pipe, to be delivered at Warehouse, 23 East Fifth St., freight prepaid, by April 5, 1907.

FRONTENAC, KAN.—Bids are asked by H. G. Whiteleather, City Clerk, until March 23, for construction of 75,000-gallon steel water tank and tower.

W. C. SWANWICK, of Joplin, Mo., has been awarded contract for construction of water-works at this place.

CRAWFORD, NEB.—Bids were received Feb. 27 by the Board of Consulting Engineers, U. S. Reclamation Service, for construction of Pathfinder dyke, North Platte Irrigation Project, Wyo.—Neb., as follows: Hubbard & Carlson, Boise, Idaho, $293,935; Geddes and Searle, Denver, Colo., $244,875; James O'Connor, Mitchell, Neb., $244,460.

BILLINGS, MONT.—Bids are asked by City Clerk until about April 15 for constructing municipal water-works. The supply to be procured from Yellowstone River. Estimated cost, $300,000. Henry Gerharz is City Engr.

GREAT FALLS, MONT.—Plans, specifications and bidding sheets for constructing twelve miles of main canal, 67 miles of laterals, and 17 miles of waste water ditches near Great Falls, Mont., are on file at office of Engineering News, New York. Bids are asked until 2 p. m., April 3. (Advertised, Engineering News.)

CENTRALIA, MO.—On Feb. 26, $55,000 in bonds were voted for constructing municipal lighting and water-works plant. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., will prepare plans and specifications.

SNYDER, OKLA.—Bids are asked by the City Council until 6 p. m., March 20, for constructing water-works system, electric light plant and sewer outfall. W. P. Bullock, 110 Monroe Ave., Kansas City, Mo., is Consult. Engr.

SULPHUR SPRINGS, COL.—See under Light and Power Plants.

FT. FLAGLER, WASH.—Bids are asked by H. G. Millar, Const. Q. M., U. S. A., Ft. Flagler, until 11.30 a. m., March 16, for installing two fire hydrants and extending pipe-line.

SEATTLE, WASH.—We are officially advised that the following bids were received Feb. 26 for constructing additional gravity water supply system for Seattle from Cedar River to Seattle: The International Contract Co., 738 New York Block, Seattle, $1,322,921; Robert Wakefield, O. R. & N. shops, Albina, Portland, Ore., $1,197,[illegible]; Puget Sound Bridge & Dredging Co., 95 Yesler Way, Seattle, $1,163,458. The contract will be awarded to the PUGET SOUND BRIDGE & DREDGING CO as soon as bids for this work have been sold. The following additional bids were received for construction (A) Beacon Hill reservoir, (B) Green Lake reservoir, which is included in the water supply system: H. W. Hawley and L. Lane, 615 Fifth Ave., North Seattle, (A) $2,450, (B) $106,250; C. T. Erickson, 151[illegible] Fifth Ave., Seattle, (B) $92,675; A. C. Goe[illegible] 1802 16th Ave., Seattle, (A) $216,645; [illegible] M. Jones and C. W. Ide, 918-930 Twelfth Ave., Seattle, (B) $77,455. One bid was submitted by E. M. Jones and C. W. Ide for constructing low service pressure reservoir at Green Lake, at $61,185. Itemized bids will be given next week under Contract Prices. R. H. Thomson is City Engr. H. W. Scott is Prin. Asst. and Designing Engr.

FT. BARRY (Sausalito post-office), CAL.—Bids are asked by Capt. B. F. Cheatham, Const. Q. M., U. S. A., 1086 North Point St., San Francisco, until March 16, for furnishing material and constructing water distributing system, sewerage system and 200,000-gallon reinforced concrete reservoir at Ft. Barry.

MILNER, IDAHO.—Bids are asked by the Twin Falls North Side Land & Water Co., Paul S. A. Brickel, Ch. Engr., until 3 p. m., March 12, for excavating four miles of canal, containing about 93,000 cu. yds. lava rock excavation, 470,000 cu. yds. earth excavation, 32,000 cu. yds. puddle embankment, 45,000 cu. yds. concrete work, and 8,000 cu. yds. loose rock excavation, and constructing 40 miles of canals and laterals containing about 260,000 cu. yds. earth excavation.

OTTAWA, ONT.—Bids are asked by Alderman Charles Pepper, Chmn. Water-Works Com., until noon, March 12, for furnishing brasswork, castings, c.-i. pipe, hydrants, valves, lead pipe, pig lead, oils and grease. Newton J. Kerr is City Engr.

SUMMERSIDE, P. E. I.—The city will ask for bids in April for installing water-works and sewerage system. Cost, $100,000. V. H. Dupont, at Montreal, is Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by the Metropolitan Water and Sewerage Board, William N. Davenport, Secy., until 2.30 p. m., April 5, for constructing in rock and earth trench Section 84 of extension of high level sewer, South Metropolitan system, in private land, Columbia and Harlan Sts. and Commonwealth Ave., Brookline and Brighton. For approximate quantities of work, see advertisement. William M. Brown is Ch. Engr. (Advertised, Engineering News.)

WATERBURY, CONN.—Bids are asked by the Board of Public Works until 8 p. m., April 2, for constructing Section 3, Main Carrier, Sewage Disposal Works, including filter influent and effluent conduits, grit chamber, substructure for controller house, and appurtenances. For approximate material quantities, see advertisement. R. A. Cairns is City Engr. (Advertised, Engineering News.)

HARTFORD, CONN.—It is reported that the Street Board contemplates constructing trunk sewer in the northwestern section of the city through Homestead Ave. to Gully Brook Valley. Estimated cost, $98,000. Frederick L. Ford is City Engr.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of The Bronx, until 11 a. m., March 14, for constructing sewers and appurtenances in various streets in Borough of The Bronx.

ORANGE, N. J.—Bids are asked until 8 p. m., March 25, for pumping main and ejectors for the proposed new sewage pumping plant at the Chestnut St. pumping station. Bids will be received at same time for boilers and chimney for this pumping station. Willett B. Gano, City Clerk. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked by J. R. Hathaway, Director Dept. Pub. Wks., until noon, March 19, for constructing branch sewers, inlets; reconstructing sewers; furnishing photolithographs and engineering supplies. For detailed items see advertisement. (Advertised, Engineering News.)

BALTIMORE, MD.—Bids are asked by the Sewerage Commission, Peter Leary, Jr., Chn., until 11 a. m., April 10, for constructing outfall sewer, Sections 3 to 10, inclusive, high level interceptor, Sections 1 and 2, low level interceptor, Sections 1 and 2, and clearing and grading site of Back River disposal works. For approximate quantities of work, see advertisement. (Advertised, Engineering News.)

LUMBERTON, N. C.—See under Water Supply—Irrigation.

SALISBURY, N. C.—It is proposed to construct a 24-in. sewer in South Salisbury from dam on South Division St. to New York, Philadelphia & Norfolk R. R.

ORANGEBURG, S. C.—We are officially advised that the following bids were received Feb. 28 by the Sewerage Commissioners, for furnishing material and constructing about ten miles of sanitary sewers: BERGHAUS & MOFFITT, Harrisburg, Pa.

(awarded contract), $45,118; Frederick Minshall, Abbeville, S. C., $51,317; Reliable Construction Co., Orangeburg, S. C., $51,-836; Erbanding Co., Augusta, Ga., $48,372; Bryan & Co., Jacksonville, Fla., $47,664, and Ebaugh & Shaugh, Greenville, S. C., $54,456. Itemized bids will be given under Contract Prices next week. Edward Hawes is City Engr.

AUGUSTA, GA.—THEODORE G. McAULIFFE, of this city, has been awarded contract for constructing sewers during the ensuing year, at $6,858. W. B. Getshell is City Engr.

AUGUSTA, LA.—It is reported that the city will extend sewerage system, waterworks and electric light system. Total cost, $25,000. F. S. Hoyt is City Engr.

COVINGTON, TENN.—P. H. PORTER, of Clinton, Ky., has been awarded contract for constructing 5.1 miles sewer system and two septic tanks for the city, at $14,147. Granberry Jackson, at Nashville, Tenn., is Engr.

ELYRIA, OHIO.—Bids are asked by the Board of Public Service, Rose Moriarty, Clk., until noon, March 8, for constructing sewers.

LANCASTER, OHIO.—Bids are asked until March 20, by the Board of Public Service, Isaiah Vorys, Chn., for furnishing material and constructing sewers in Storm Water Sewer Dist. No. 1. John N. Wolfe is City Engr.

PAINESVILLE, OHIO.—Bids are asked by the Board of Public Service until noon, March 14, for constructing about 4,560 ft. of 8 to 18-in. pipe sewers in Liberty St., Walnut and Mentor Aves. H. P. Cummings is City Engr.

WILLOUGHBY, OHIO.—Bids are asked until March 18, by C. C. Jenkins, Village Clk., for furnishing material and constructing main sewer No. 1.

FRANKFORT, IND.—Contract for constructing sanitary sewer has been awarded to JOHN A. ROSS, of this city, at $4,452. Otto Wolf is Deputy City Clk.

CAIRO, ILL.—We are officially advised that all bids received Feb. 19 by the Board of Local Improvements, for constructing 9,699 ft. of concrete main sewers and necessary appurtenances, have been rejected. New bids will be received until March 12. W. B. Thistlewood is City Engr.

CHAMPAIGNE, ILL.—HENSEN & PITTMAN, of this city, have been awarded contract for constructing sewers. G. C. Fairclo is City Engr.

DECATUR, ILL.—We are officially advised that S. A. TUTTLE & CO., of Decatur, have been awarded contract for constructing Prairie Ave. sewerage system, at $41,370. Bids were also submitted by Frank Bundy and A. F. Gebhart, both of Decatur, at $43,-000 and $44,500, respectively. A. B. Alexander is City Engr.

JOLIET, ILL.—ROBERT SHANNON has been awarded contract for constructing Plainfield Ave. and Nicholson St. sewer, at $5,558. Hubert A. Stevens is City Engr.

POLO, ILL.—Bids are asked by the Board of Local Improvement until 1 p. m., March 21, for construction of sanitary sewer system, outlet, purification plant, etc. The system embraces a total of 36,600 ft. of sewers ranging from 6 to 16-in. Total estimated cost, $40,031. J. A. Davison is City Engr.

BURLINGTON, IOWA.—Bids are asked until March 18, for constructing Locust St. sewer and branches. Work to commence about April 5. J. F. Winters is City Engr.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works, until March 11, for constructing 12-in. vitrified sewer. George D. Dobson is City Engr.

MASON, IOWA.—SWAN NELSON, of this city, has been awarded contract for constructing drain sewer in Sherman Township.

VINTON, IOWA.—Bids are asked until March 20 by W. E. Klingaman, City Clk., for constructing about 6,000 ft. of 8 to 20-in. sewers. M. Tschirgi & Sons are Consult. Engrs., Dubuque.

ST. PAUL, MINN.—The city will issue bonds amounting to $300,000 to assist in raising sum of $430,000 for constructing sewers. The money will be spent as follows: St. Anthony Park sewer, to drain St. Anthony Park and State Agricultural College, via Sumerville Ave., into Mississippi River, $150,000; culvert over Phalen Creek, from Mississippi River to Minnehaha St., $75,000; South St. sewer, to drain city west of Rice St. and north of Maryland St. into Trout Brook, $57,000; extending Jefferson and Hamline sewer along right of way of Chicago, Milwaukee & St. Paul Ry., from Milton St. to Hamline Ave., and on Hamline Ave to St. Anthony Ave., $50,000; Aldine and Portland sewer system, to extend from intersection of Marshall and Snelling Aves. to Shadow Falls, on Mississippi River north of Summit Ave., $50,000; Como Ave. sewer, from Como Park to Topping St., $15,000, and miscellaneous improvements, $33,000. L. E. Rundlett is City Engr.

HASTINGS, MINN.—WILLIAM TUNNEY, of Joliet, Ill., has been awarded contract for constructing sewers and water-works, at $33,694.

EUREKA, KAN.—JOHN G. MATT, of Independence, Mo., has been awarded contract for constructing sewerage system for $14,-080. The work comprises 1,956 ft. 10-in. pipe, 17,428 ft. 8-in. pipe, 42 manholes, 8 flush tanks and 200 cu. yds. rock excavation. Lund & Hines, of Blackwell, Okla., bid $15,000. J. H. Smythe is City Clk.

WICHITA, KAN.—We are officially advised that contracts for constructing 20 lateral brick and pipe sewers in central part of the city have been awarded as follows: C. A. BAKER & J. M. CHAIN, Wichita, Kan., three, at $14,158; DUGAL & SCHWARTZ, Colorado Springs, Colo., eight, at $115,717, and McINTYRE & TEASE, St. Louis, Mo., nine, at $151,903. R. N. Dorr is City Clk.

ABERDEEN, S. DAK.—Bids are asked until March 11 by F. W. Raymond, City Audr., for excavating, laying tile, and filling for storm sewer from Chicago, Milwaukee & St. Paul Ry. slough to Mocassin Creek.

CARTERVILLE, MO.—Bids will soon be asked for construction of brick or vitrified pipe sewer system. Cost, $12,000. Smith & Funk, at Webb City, Mo., are Engrs.

MANGUM, OKLA.—The city will construct 2½ miles of sewerage. Estimated cost, $15,-000. J. W. Ryder is Engr. F. Shell is City Clk.

POTEAU, IND. T.—The city has issued bonds for constructing sewers.

CORAM, CAL.—The city contemplates constructing sewers.

FT. BARRY (Sausalito post-office), CAL.—See under Water Supply—Irrigation.

OAKLAND, CAL.—Bids were received Feb. 20 by the Board of Public Works for constructing sewers in various streets. The following are low bidders on the various sewers: Cemetery Creek sewer, Michael Murphy, $6,238; Diamond sewer, Cotton Bros., $14,526; Fourth Ave. sewer, C. D. Vincent, $19,285; Second and Grove St. sewer, Atlantic Gulf & Pacific Construction Co., $62,850; Second and Webster Sts. sewer, Cotton Brothers, $31,181. C. W. Cross is City Engr.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—The Board of Contract and Supply has awarded to MULDERRY BROS., Albany, the contract for improvement of Ontario St., at $23,970. Walter Melius is City Engr.

ITHACA, N. Y.—The Board of County Supervisors invites correspondence relative to improving 13 miles of highway. Work is to be sub-let and necessary machinery and tools may be obtained from the county. William H. Parker is Chmn. Good Roads Com. (Advertised, Engineering News.)

MAMARONECK, N. Y.—Bids are asked by the Board of Trustees, Charles W. Buckter, Clk., until 8.30 p. m., March 25, for paving portions of Boston Post Road and Mamaroneck Ave. The work consists of approximately 40,000 sq. yds. vitrified brick pavement, 14,000 lin. ft. curbing and drainage system. (Advertised, Engineering News.)

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., March 13, for repairing and maintaining asphalt pavements in various streets and for furnishing and delivering broken trap rock and trap rock screenings on various streets, Boro. of Brooklyn.

JAMESTOWN, N. Y.—The following bids have been received by the Board of Public Works for paving in (A) Newland Ave. and (B) West Second St. with (1) broken stone concrete foundation and (2) gravel concrete foundation: (A) Morse & Burland, (1) $31,-256, (2) $30,040; Thomas Mahoney, (1) $35,-121, (2) $29,529, and John Mahoney, (1) $34,-838, (2) $30,704. (B) Morse & Burland, (1) $16,328, (2) $15,714; Thomas Mahoney, (1) $18,369, (2) $14,541, and John Mahoney, (1) $17,829, (2) $15,124. C. G. Jones is City Engr.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro of Richmond, until noon, March 19, for furnishing material and paving with iron slag block, asphalt block, vitrified brick, granite block and macadam and granite block pavement for various streets in Boro. of Richmond.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., March 20, for regulating and repaving various streets, laying cement concrete sidewalks, and furnishing and delivering 37,500 gallons of flux or residuum oil, in Boro. of Brooklyn.

PHILADELPHIA, PA.—Bids are asked by John R. Hathaway, Director Dept. Pub. Wks., until noon, March 20, for (A) grading, (B) paving with refined natural asphalt, (C) paving with vitrified fire clay, shale bricks or blocks (D) paving with granite, Pennsylvania or Lambertville blocks, (E) repairing pavements during present year, (F) repairing asphalt and granolithic pavements during present year, (G) paving and repaving streets, etc., and (H) removing obstructions. (Advertised, Engineering News.)

NONESSEN, PA.—We are officially advised that the following bids were received Feb. 25, for grading, curbing and paving about 11,350 sq. yds. of paving: Bowman Bros. & Co., McKeesport, Pa., $24,014; E. A. Freshwater, Chester, W. Va., $25,570; Rosser & Maloney, Bellaire, Ohio, $26,701; Charleroi Paving & Construction Co., Charleroi, Pa., $24,240; W. W. Kelly, McKeesport, Pa., $26,102; Kenedy & Preston, Nonessen, Pa., $26,829, and Binder & Azzara, Barnesboro, Pa., $27,119. J. F. Irwin is Boro. Engr.

WASHINGTON, D. C.—Bids are asked until noon, March 23, by the District Comrs., for repairing asphalt pavements for periods ending June 30, 1909, and June 30, 1911.

Bids are asked until noon, March 30, by the Comrs. for laying asphalt block pavements, and for paving various streets and avenues with sheet asphalt. (Advertised, Engineering News.)

RICHMOND, VA.—J. H. WALLEN & CO. have been awarded contract for brick paving and stone work. W. E. Cutshaw is City Engr.

LAGRANGE, GA.—C. H. GRIFFIN, of this city, has been awarded contract for improving Greenville st.

BESSEMER, ALA.—Bids are asked until March 19, for constructing 8,000 sq. yds. cement sidewalks. William Hugh McEniry is City Engr.

ASHLAND, KY.—Bids are asked until 7 p. m., March 11, for furnishing material and constructing vitrified brick or bitulithic pavements, concrete curb and gutter. J. A. Meredith is City Clk. J. W. Bosley is City Engr.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., March 9, for grading, draining and paving North Ridge Road through Dover Township. A. B. Lea is County Engr.

PAINESVILLE, OHIO.—Bids are asked by the Board of Public Service, until noon, March 14, for paving Elm, Erie and South St. Clair Sts. and Mentor Ave. The work consists of about 27,000 sq. yds. of paving and 14,370 lin. ft. of stone curb. H. P. Cummings is City Engr.

WAUSEON, OHIO.—The City Council has awarded contract for paving on Fulton St. North, to HEFFNER & SON, of Celina, at $12,200.

SPRINGFIELD, OHIO. — WILLIAM F. PAYNE, of this city, has been awarded contract for paving. W. H. Sieverling is City Engr.

NEWPORT, IND.—Bids are asked by H. T. Payne, County Audr., until 10 a. m., March 11, for construction of 14 gravel roads in Clinton Township, with total length of 24 miles and 3,497 ft. The Commissioners contemplate building about 25 more miles of gravel road during the spring and summer.

TERRE HAUTE, IND.—Bids are asked by the County Commissioners until 11 a. m., March 23, for construction of 14,440 ft. of gravel road in Prairie Township. Jerome W. Denehie is County Audr.

The County Commissioners recently awarded contracts for constructing roads as follows: Holdaway Road, Fayette Township, WILLIAM C. DORSEY, $8,895; Linton Road, Prairie Creek Township, CURRY & WOOD, $3,400; Paddock Road, Prairie Creek Township, EVANS & WEIR, $3,749; Drake Road, Prairie Creek Township, CURRY & WOOD, $3,040.

BAY CITY, MICH.—Bids are asked until March 11 for laying 5,150 sq. yds. of brick paving on 5-in. Portland cement foundation, with asphalt filler for joints. H. C. Thompson is City Engr.

EL PASO, ILL.—Bids are asked by the Board of Local Improvements, Peter Donner, Pres., until March 9, for paving Front St. with brick.

LINCOLN, ILL.—SHIRK & BATES, of this city, have been awarded contract for paving Ottawa St. James C. Greenslate is City Clk.

OAK PARK, ILL.—The contract for paving 17,300 sq. yds. of granite top macadam pavement, including 11,800 lin. ft. of concrete combined curb and gutter, on Randolph St., has been awarded to M. H. McGOVERN, 404 Chamber of Commerce Bldg., Chicago, at $29,821. R. A. Carpenter is Engr.

CHICAGO, ILL.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., April 3, for changing driveway, etc., at U. S. post-office, court-house, etc., at Chicago.

JEFFERSON, WIS. — BARTLETT & STANCHFIELD, of Watertown, Wis., have been awarded contract for paving various streets.

HOUSTON, TEX.—Bids are asked by John B. Ashe, County Audr., until noon, March 12, for grading Webster and Friendswood Road.

SEATTLE, WASH.—The following bids were recently received by the Board of Public Works, C. B. Bagley, Secy., for paving (A) East Jefferson St, and (B) Bellevue St.: (A) The Independent Asphalt Co., $297,163; Barber Asphalt Co., $315,032. (B) The Independent Asphalt Co., $218,360, and Barber Asphalt Co., $232,714. R. H. Thompson is City Engr.

SPOKANE, WASH.—Bids are being received for constructing and grading Manito Park Boulevard by the Park Commissioners. Estimated cost, $11,000. Charles McIntyre is City Engr.

GOLDEN, COLO.—The contract for constructing 1,500 ft. of road on Hartzel Hill, in Golden Gate Canyon, northwest of Golden, has been awarded by the County Commissioners to HENRY RAMSTETTER.

SAN FRANCISCO, CAL.—C. S. HARNEY has been awarded contract for paving Fourth St. Thomas P. Woodward is City Engr.

OTTAWA, ONT.—Bids are asked by James Davison, Chmn. Bd. Wks., until March 13, for furnishing brick, broken stone, curbing, cement, hardware, plank and cedar and tile pipe. Newton J. Kerr is City Engr.

RICHMOND, QUE.—Bids are asked by John Morine, Mayor, until March 11, for paving with either vitrified brick, sheet asphalt, bitulithic or asphalt block. D. Benzie is Engr., Richmond, Que.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

PALMER, MASS.—An addition, two stories high and 160 ft. long, will be erected by the Wright Wire Co. Several other additions will be built soon.

STAMFORD, CONN.—The Yale & Towne Mfg. Co., 9 Murray St., New York, has recently awarded to FRANK B. GILBRETH, 34 West 26th St., New York, contracts for building extensions to its press shop and cabinet lock department at Stamford. The press shop extension will be one story high, approximately 80 × 156 ft., resting on 40-ft. piles, with brick walls and timber roof, with saw-tooth skylights. The floor will be of reinforced concrete, designed for a live load of 250 lbs. The cabinet lock department extension will be one story high, 42 × 80 ft., of wood construction, with gravel roof; and concrete foundation and retaining wall. The work will cost about $40,000, and is to be pushed forward as rapidly as possible.

NEW YORK, N. Y.—Plans have been filed for a 6-story brick factory to be erected at 36th St. and Second Ave., Brooklyn, at a cost of $300,000, for the Bush Land Co., 160 Broad St., New York. H. Higginson, 21 Park Row, is Arch.

Plans have been prepared for a 4-story brick factory to be erected at Knickerbocker Ave. and Bleecker St., at a cost of $35,000, for Salant & Salant, 14 White St., New York.

BUFFALO, N. Y.—It is reported that the George F. Westcott Co., Washington and Perry Sts., manufacturers of conveying, elevator and labor-saving machinery, will erect a 1-story building of brick and steel, 120 × 200 ft., with an enameling and heating plant in another building.

The Francis Perot's Sons Malting Co., Philadelphia, Pa., is having plans made for a malt house, to be built on the Buffalo River, near the corner of Hamburg turnpike and Childs St. It will have a capacity of 1,000,-000 bushels a year, and will cost $500,000.

COLLEGEVILLE, PA.—It is reported that J. V. Poley, Arch., 162 Second Ave., Royersford, Pa., has prepared plans for a 3-story canning factory, 31 × 175 ft. F. J. Clamer is owner.

READING, PA.—Nolde & Horst, hosiery manufacturers, are contemplating enlarging their establishment. The property at the corner of Ninth and Douglas Sts. will be razed and the plant extended along Douglass St. several hundred feet.

BALTIMORE, MD.—Plans are out for bids on car-repair shop to be built by the Washington, Baltimore & Annapolis Electric Railway Co., 801 Maryland Trust Building, Baltimore, Md., after plans by Roberts & Abbott Co., Cleveland, Ohio. The building will be 1-story, 84x257 ft.

HENDERSONVILLE, N. C.—It is reported that S. B. Tanner, Pres. of Henrietta Mills, Caroleen, N. C., and associates will build cotton mill near Hendersonville. J. O. Bell is in charge and is now arranging the details. It was also reported that Mr. Tanner and associates will develop the water-power of the Green River Falls in this connection.

MACON, GA.—The Board of Directors of the Central of Georgia Ry. Co. held a meeting in this city recently, and completed arrangements to erect and equip shops to cost not less than $1,000,000. The plan is to enlarge present shops. W. H. Fetner is Master Mechanic, Macon, Ga.

COLUMBUS, GA.—It is reported that a building to cost $10,000 will be constructed by the Columbus School Desk & Chair Mfg. Co.

ATLANTA, GA.—The Screen & Cabinet Mfg. Co., with $50,000 capital stock, will manufacture screen doors, showcases, bank, and office fixtures, etc. A brick and corrugated iron building with 22,000 ft. of floor space will be erected. A. B. Ware, 318 Peters Bldg., is Pres.; W. H. Zachry is Secy.-Treas., and J. E. Hale, Mgr.

ENSLEY, ALA.—It is reported that the Tennessee Coal, Iron & Railroad Co. is completing arrangements for erection of proposed machine and blacksmith shops. Machine shop will be 104x50 ft., with 30-ft. lean-to on each side extending entire length of building. Contract for steel skeleton work is said to have been awarded to PITTSBURG BRIDGE & CONSTRUCTION CO., of Pittsburg, Pa., the company doing its own masonry work. The blacksmith shop will be of steel construction entirely, and will be 120 × 60 ft., with a 20-ft. lean-to running the entire length of the building, and will be equipped with three large steam hammers. Electric crane for handling the heavy work will also be installed. Main office, Birmingham, Ala.; New York office, 100 Broadway.

NEW ORLEANS, LA.—Penick & Ford, of Shreveport, La., have purchased a location and will establish a syrup mill at New Orleans.

LORAIN, OHIO.—It is reported that a brass foundry will be erected by the Lorain Machine & Forge Co. for making an oil force pump for automobiles.

BRAZIL, IND.—It is probable that contracts will be let in March for the construction of a wire fence and mill plant at Brazil, to cost about $14,000. The building will be 56 × 158 ft., and a 50-HP. gas engine will be installed.

VINCENNES, IND.—The Old Vincennes Distilling Co. announces that it will soon ask for bids for the construction of a new plant on the site of the distillery recently destroyed by fire.

FAIRMOUNT, IND.—The Snider Preserving Co., of Cincinnati, Ohio, will ask for bids soon for the erection of a factory in this city and one in Marion, Ind. The buildings will be each two stories in height, 150 × 300 ft., with an additional building for storage 100 × 150 ft. Floors will be cement and the walls cement block lined with white tiling.

DETROIT, MICH.—The Pressed Steel Sanitary Mfg. Co. has been organized with a capital of $400,000. It will build a factory, 180 × 100 ft. De Witt Loomis is Gen. Mgr., 808 Union Trust Bldg.

BATTLE CREEK, MICH.—It is reported that the Union Steam Pump Co. has purchased a block of land on which it is preparing to build a large addition to their plant.

LANSING, MICH.—The Eureka Machine Co. will build a factory in a few months. The authorized capital is $50,000. The company will manufacture cement mixing machines.

GRANITE CITY, ILL.—The East St. Louis & Suburban Ry. Co., 301 Broadway, East St. Louis, Ill., will prepare plans for a 1-story car shop for said railroad at Granite City. Brick and reinforced concrete, composition roof, iron and steel work, sky lights, etc. Estimated cost, $50,000. M. M. Lloyd, East St. Louis, is Master Mechanic.

ALTON, ILL.—L. Pfeiffenberger & Son, 102 W. 3d St., Alton, are preparing plans for a factory building for the McPike Paper Co., to be built at Alby and Front Sts. The structure is to be 120x94 ft., with stone foundations, brick superstructure and composition roof, steel girders, c.-i. plates, post caps, etc.

CHICAGO, ILL.—Jenney, Mundie & Jensen, Archs., New York Life Bldg., are about to let contracts for a manufacturing building

to be built on the east side of La Salle St., 119 ft. south of 22d St., by William N. Eisendrath for the occupancy of the Troy Laundry Machinery Co., lessee, whose plant adjoins the site of the proposed building. It will be 5-story, 250x122 ft., of mill construction, have concrete foundations, pressed brick front, composition roof, steam heat, elevators, electric light, and cost $200,000. The lessee has leased the building for 20 years.

AURORA, ILL.—It is reported that the Stephen-Adamson Co. has purchased land adjoining its present plant and will erect a large foundry costing between $25,000 and $35,000.

PORTAGE, WIS.—The Wisconsin Portland Cement Co. is having plans prepared for a 10,000-bbl. cement factory to cost $400,000, equipped with latest pattern machinery. Plant will be located at Lake Ennis, near Portage.

MILWAUKEE, WIS.—It is reported that Ernest R. Liebert, Arch., has awarded the contracts for the $30,000 distilling plant for the National Distilling Co., at St. Paul Ave. and 28th St., as follows: EDWIN STEGERWALD, 2305 Galena St., mason work; WISCONSIN BRIDGE & IRON WORKS, iron work; H. BUESTRIN & SONS, concrete foundation; A. J. MANG & CO., plumbing.

DES MOINES, IOWA.—The Smoke Consumer, Heater & Ventilator Co. has had plans prepared for a factory to be erected at East 20th and Walker Sts. It will consist of two buildings, respectively 20x90 ft. and 36x90 ft., the former two stories in height and the latter one story high. W. N. Simmins is Pres.; L. Stanley is Secy. Cost of buildings, $50,000.

MINNEAPOLIS, MINN.—The North Star Malting Co. has awarded the contract to the SALADIN PNEUMATIC MALTING CONSTRUCTION CO. for the 5-story addition to its plant at 17th Ave. Northeast and Main St. Cost, $60,000.

The American Kersey Co. will erect a plant here to manufacture woolen goods. Announcement of the plans of the company has been made by Sherlock M. Merrill, Pres., and although no site has yet been chosen for the erection of the plant, several locations are under consideration. Medium and low-priced woolens are to be manufactured by the company, which has recently been incorporated. The fabric to be manufactured is an innovation in this country, consisting of a wool fabric made from rag-clippings sewed on a durable foundation. The plant will have a capacity of 500,000 yards a year.

ST. LOUIS, MO.—Plans have been prepared for a 5-story factory building, 30 x 100 ft., to be erected at Sarah and Olive Sts. for Battle & Co., 2001 Locust St. Bids will be received in about two months.

SPOKANE, WASH.—The Ames Engine Co. has been incorporated with $1,000,000 capital, with Levi Rhodes, Pres., and Adolph Galland, Sec. and Treas. It will manufacture motor traction engines at a plant to be erected at Madelia St.

THOROLD, ONT.—The North American Smelting & Refining Co., of Hamilton, are about to establish a smelter here for refining cobalt ores. About 86 acres of land has been acquired, and the cost of the plant is placed at $250,000.

WINNIPEG, MAN.—The Canadian Bronze Co., Montreal, has decided to erect a plant here at a cost of $100,000. P. R. Diamond is Gen. Mgr., Montreal, Que.

CALGARY, ALTA.—Bids are asked by N. E. Brooks, Div. Engr., Calgary, until 3 p. m., March 15, for the erection of the following buildings: 6-stall addition round house at Swift Current, Sask.; 6-stall addition engine house at Lethbridge, Alta.; 6-stall addition engine house at Cranbrook, B. C., with two end walls; new 4-stall engine house at Coledrige; 6-stall engine house at Strathcona, Alta., with boiler room 100x45 ft. Plans and specifications may be seen at the office of the chief engineer, Winnipeg; divisional engineer, Calgary, and resident engineer, Cranbrook.

LETHBRIDGE, ALTA.—The Ellison Mill Elevator Co. is asking for bids in connection with its $75,000 mill and elevator at Lethbridge. Separate bids are asked for the excavation and foundation.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

CABLE.—New York, N. Y.—Bids are asked until 10.30 a. m., March 13, by Francis J. Lantry, Fire Comr., for furnishing and delivering underground and submarine cable.

REPAIRING PIER.—Grand Rapids, Mich.—Bids are asked until 3 p. m., April 4, by Col. M. B. Adams, U. S. Engrs., for repair of South Pier at Muskegon, Mich. (Advertised, Engineering News.)

CEMENT.—Edmonton, Alta.—The Commissioners will receive bids until March 10 for the supply of 5,000 bbls., more or less, of Portland cement, delivery to commence June 1. J. G. Kinnaird, Secy.-Treas.

DREDGING.—New London, Conn.—Bids were received on March 2 by Maj. Harry Taylor, Engrs., for dredging in New Haven Harbor, Conn. Lowest bidder was the Atlantic Dredging Co., at $16,680.

TUNNEL.—Cripple Creek, Colo.—Bids will be received soon by the Cripple Creek Drainage & Tunnel Co. for construction of 7 x 10 ft. drainage tunnel for the mines at this place. It will be 15,000 ft. in length. E. D. Marr is Secy.

DITCH.—Albert Lea, Minn.—J. W. Dappert, Taylorville, Ill., Engr., advises us that contract for building Judicial Ditch No. 1 will be let probably on March 28. Estimated excavation, 1,739,779 cu. yds., at estimated cost of $163,364. F. H. Fisk, Albert Lea, is Asst. Engr.

BULKHEAD.—New York, N. Y.—Bids are asked until 3 p. m., March 21, by the Park Board, for furnishing and putting in place in the bulkhead at the foot of Ocean Parkway 3,500 cu. yds. of boat stone. Moses Herrman is Pres.

DREDGING.—Norfolk, Va.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the COASTWISE DREDGING CO., Norfolk, Va., contract for construction of wharf, dredging, etc., at Norfolk, at its bid of $63,000.

WHARF, BREAKWATER.—Moncton, N. B.—D. Pottinger, Gen. Mgr. I. C. R., will receive bids until March 15, for the construction of wharf and breakwater at Grand Mannan, N. B. W. B. Mackenzie is Ch. Engr., Moncton, N. B.

CABLES.—Philadelphia, Pa.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the JOHN ROEBLING'S SONS CO., Trenton, N. J., contract for furnishing cables at the League Island Navy Yard, at $13,989.

CEMENT.—Wheeling, W. Va.—Bids are asked by Capt. F. C. Boggs, U. S. Engrs., until 11 a. m., April 3, for furnishing and delivering about 9,500 bbls. of American Portland cement at Dam No. 18, Ohio River. (Advertised, Engineering News.)

DREDGING PLANT.—Cincinnati, Ohio.—Bids are asked until noon, March 30, for hire of dredging plant consisting of one dredge, one towboat, and three dump scows. Lieut. Col. Wm. T. Rossell, U. S. Engrs. (Advertised, Engineering News.)

CROSS-TIES.—Galatia, Ill.—D. E. Baxter & Co., Inc., railroad contractors, 27 William St., New York, have placed an order with S. L. BENZ, of Pittsburg, Pa., for 26,500 standard cross-ties for the Harrisburg & Ohio River R. R. for immediate delivery at Galatia, Ill., a point of connection on the Illinois Central Railroad.

SEA-WALL.—Chicago, Ill.—Bids were received at the office of the Bureau of Navigation, Navy Dept., Washington, D. C., Feb. 26, for the construction of a timber crib seawall around the site of power-house at naval training station, Great Lakes, North Chicago, Ill. But one bid was received, that of James E. Hale, North Chicago, Ill., at $12,950.

VESSEL.—Washington, D. C.—Bids were received Feb. 26, at the Office of the Revenue Cutter Service, Treasury Dept., Washington, D. C., for the construction of an ocean-going tug for the Revenue Cutter Service, to be delivered to the Government at the works of the successful bidder. Bids were: Maryland Steel Co., Sparrows Point, Md., $240,000; Pusey & Jones, Wilmington, Del., $189,057.

CHANNEL IMPROVEMENTS.—Boston, Mass.—Bids were received on March 1 by the Board of Harbor and Land Commissioners, State House, Boston, for widening and deepening a portion of the Reserved Channel on the South Boston Flats, about 425,000 cu. yds. as follows: Eastern Dredging Co., 23¾ cts. a cu. yd.; GEORGE H. BREYMANN & BRO., East Boston, 18 cts. (awarded contract at $76,500); Morris & Cummings Dredging Co., 22.9 cts.; Charles F. Taylor & Co., 23.5 cts. Frank W. Hodgdon, Ch. Engr.

ORDNANCE.—Washington, D. C.—Bids are asked until 1 p. m., March 11, by the Army Chief of Ordnance, War Dept., Washington, for the purchase of seven smooth-bore guns, 10-in.; two 100-pounder muzzle loader Parrott guns, six ten-inch barbette carriages, and four 100-pounder barbette carriages, and Parrott guns. Also on March 16, for three ten-inch smooth-bore Rodman guns, and three carriages for same, two carriages for eight-inch Rodman guns, two carriages for 100-pounder Parrott guns, seven 24-pounder smooth-bore guns and two 24-pounder rifles, two 30-pounder Parrott guns, one eight-inch rifle, and carriage, with sights, etc., for various coast-defense points.

REPAIRING FERRYBOATS, ETC.—New York, N. Y.—The following bids were received on March 5, by the Department of Docks and Ferries, for repairing the municipal ferryboats or other floating property of the department and furnishing and delivering miscellaneous supplies therefor: James Reilly Repair & Supply Co., 229 West St., $68,880; Columbia Engine Works, Produce Exchange, $96,095; John F. Walsh, Jr., 136 Charlton St., $98,855; James Shewan & Son, foot of East Houston St., $56,010; John W. Sullivan, 827 East Ninth St., $108,032; James Fregarthen & Son, foot of Seventh St., $73,400; Monad Engine Co., 147 Cedar St., $79,247. J. A. Bensel is Comr. of Docks.

FERRY TERMINAL.—New York, N. Y.—The "Tribune" states that "plans for the new Stapleton ferry terminal of the Municipal Ferry have just been made public by J. A. Bensel, Comr. of Docks and Ferries. The scheme provides for a ferry building and a pier 1,300 ft. long, the latter being practically completed. Snelling & Potter, 37 East 30th St., Archs. for the ferry house, and C. W. Stanniford, engineer in chief of the department, prepared the other plans. The ferry house will be a fireproof structure of steel, masonry and terra cotta, one ferry slip being provided at first, with room for additional facilities later. The main part will consist of one story. There will be a gallery approach to the upper deck of the ferryboats. The estimated cost of the ferry house is $125,000, and the pier will cost $137,000. On the pier there will be a machine shop, coal pocket, ash dump and oil house, the plan being to use the structure as a general lying-up place for the Municipal Ferry fleet."

SUBWAY.—Washington, D. C.—Plans and specifications for a considerable amount of work in connection with the Capitol buildings are now being prepared by Elliott Woods, Supt. of the Capitol Buildings and Grounds, and will be issued within the next few weeks. Mr. Woods is planning the construction of a subway between the Capitol and the new office buildings flanking it. The subway is to be about 20 ft. in diameter and 700 ft. long on each side, on the north to the Senate office building, and on the south to the House office building. It is to be constructed of reinforced waterproof concrete, and probably will be lined with some glazed material. It is expected that the appropriation of $168,500 which has been made for each subway will be sufficient to cover all expenditures for construction and equipment.

An advertisement will probably be issued about April 15, calling for bids for the construction of the large subways to be used for steam and return piping between the power plant and the several buildings. The plans and specifications for the remainder of the power plant equipment, consisting of feed water heaters, pumps, condensers and piping, will be ready about April 1. Plans and specifications are also being prepared for the interior finish of the House office building and also for the copper roofing for the same building.

CONTRACT PRICES.

PAVING, GRADING, ETC.—Albany, N. Y.—The following bids were received on Feb. 18 by the Board of Contract and Supply, Albany, for the improvement of Ontario St. from Central Ave. to Livingston Ave.: M. F. Dollard, $24,854.05; Robert Shafer, $29,285.40; T. Henry Dumary, $29,123.80; John Doyle, $25,470.40; Mulderry Bros., $23,970.28; Edward F. Dillon, $28,672.00. The bidders are all of Albany. Contract will shortly be awarded to Mulderry Bros. The itemized prices of Mulderry Bros.' bid are as follows: 5,540 sq. yds. brick paving, $2.23 per yd.; 160 sq. yds. driveways, vitrified paving blocks, $2.30 per sq. yd.; 75 sq. yds. relaying pavement, $1.60 per sq. yd.; ten sq. yds. relaying pavement, $1.40 per sq. yd.; ten sq. yds. relaying pavement, $1.25 per. sq. yd.; 30 sq. yds. relaying pavement, 50 cts. per sq. yd.; 2,620 lin. ft. straight curbing, 95 cts. per lin. ft.; 400 lin. ft. circular curb, $1.25 per lin. ft.; 100 lin. ft. resetting curb, 50 cts. per lin ft.; 30 lin. ft. resetting curb, 30 cts. per lin. ft.; 6,700 sq. ft. flag sidewalk, 23 cts. per sq. ft.; 31,770 sq. ft. brick sidewalk, 4 cts. per sq. ft.; 5,450 sq. ft. relaying sidewalk, 8 cts. per sq. ft.; 310 lin. ft. 18-in. pipe, $1.92 per lin. ft.; 410 lin. ft. 15-in. pipe, $1.45 per lin. ft.; 1,580 lin. ft. 12-in. pipe, $1.22 per lin. ft.; 20 lin. ft. 10-in. pipe, $1 per lin. ft.; 100 lin. ft. 6-in. pipe, 68 cts. per lin. ft.; nine 6-in. Y's at $5.70; two 6-in. Y's at $4.34; 58 6-in. Y's at $3.25; 60 6-in. Y's at 70 cts.; ten 6-in. reducers at 80 cts.; one increaser, $2; three water services at $25; 14 manholes at $50; one receiving basin at $90; altering receiving basins, three, at $15; days to complete, 75. Isidore Wachsman is Clk. of Board. Walter Melius is City Engr.

For other Proposal Advertisement see pages 55, 56, 57, 58, of Advertisements and Construction News page 88.

COMMONWEALTH OF MASSACHUSETTS.—Metropolitan Sewerage Works.—Notice to Contractors.—Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2.30 p. m. of Friday, April 5, 1907, for constructing in rock and earth trench Section 84 of the Extension of the High Level Sewer, South Metropolitan System, in private land, Columbia and Harlan Streets and Commonwealth Avenue, Brookline and Brighton, in accordance with the forms of contract and specifications to be furnished by the Board. Some particulars are estimated to be as follows: Length, 2,168 ft.; inside diameter of sewer, 69 inches by 72 inches; 50 cubic yards of Portland brick masonry, 2,600 cubic yards of concrete masonry in trench; 3,000 linear feet reinforced concrete piles in place; 500 cubic yards rock excavation in trench. The invert of the tunnel is from 10 feet to 27 feet below the street surfaces. Plans can be seen and specifications and forms of contract can be obtained at the above office. Each bid must be accompanied by a certified check, for two thousand dollars ($2,000), payable to the Commonwealth of Massachusetts, and a bond in the sum of twelve thousand dollars ($12,000) will be required from the successful bidder. The Board reserves the right to reject any or all bids. HENRY H. SPRAGUE, HENRY P. WALCOTT, JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. WILLIAM M. BROWN, Chief Engineer of Sewerage Works. WILLIAM N. DAVENPORT, Secretary. 10-1t

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., March 2, 1907.—Sealed proposals will be received at this office until 12 o'clock, noon, Saturday, March 30, 1907, for laying asphalt-block pavements. Blank forms of proposal, specifications, and all necessary information may be obtained at Room 43, District Building. H. B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 10-2t

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., March 2, 1907.—Sealed proposals will be received at this office until 12 o'clock, noon, Saturday, March 30, 1907, for paving various streets and avenues with sheet asphalt. Blank forms of proposal, specifications, and all necessary information may be obtained at Room 43, District Building. H. B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 10-2t

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., February 16, 1907.—Sealed proposals for removing limestone bedrock from Item B, Lime Kiln Crossing, Detroit River, will be received at this office until 2 p. m., March 18, 1907, and then publicly opened. Information furnished on application. CHAS. E. L. B. DAVIS, Col., Engrs. 2-4t

U. S. ENGINEER OFFICE, 57 Park St., Grand Rapids, Mich., March 6, 1907.—Sealed proposals for Repair of South Pier at Muskegon, Mich., will be received here until 3 P. M., April 4, 1907, and then publicly opened. Information furnished on application. M. B. ADAMS, Col., Engrs. 10-4t

SEWERS.

Office of the Sewerage Commission, City Hall, Baltimore.

Sealed proposals, indorsed "Proposals for Building Outfall Sewer, Section 3," "Proposals for Building Outfall Sewer, Section 4," "Proposal for Building Outfall Sewer, Section 5," "Proposal for Building Outfall Sewer, Section 6," "Proposal for Building Outfall Sewer, Section 7," "Proposal for Building Outfall Sewer, Section 8," "Proposal for Building Outfall Sewer, Section 9," "Proposal for Building Outfall Sewer, Section 10," "Proposal for Building Outfall Sewer, Section 1," "Proposal for Building High Level Interceptor, Section 2," "Proposal for Building High Level Interceptor, Section 1," "Proposal for Building West Low Level Interceptor, Section 2," "Proposal for Clearing and Grading the Site of the Back River Disposal Works," addressed to the Board of Awards, City Hall, Baltimore City, will be received at the office of Mr. Harry F. Hooper, City Register, City Hall, Baltimore, Md., until 11 A. M. Wednesday, April 10th, 1907, for building Outfall Sewer, Sections 3, 4, 5, 6, 7, 8, 9 and 10, for building High Level Interceptor, Sections 1 and 2, for building West Low Level Interceptor, Sections 1 and 2; and for Clearing and Grading the Site of the Back River Disposal Works; all as shown on plans on file in the office of the Chief Engineer of the Commission.

Specifications and plans can be obtained upon application at the office of the Sewerage Commission, Room 904 American Building, Baltimore, Md., on and after the 7th day of March, 1907. A charge of 25 cents will be made for each specification with blueprints.

A certified check, made payable to the order of the Mayor and City Council of Baltimore, for the respective amount as shown below, will be required to be deposited with each bid, viz.:

	Amount of Check.
Outfall Sewer, Section 3	$4,500
Outfall Sewer, Section 4	4,700
Outfall Sewer, Section 5	4,400
Outfall Sewer, Section 6	5,000
Outfall Sewer, Section 7	4,300
Outfall Sewer, Section 8	4,200
Outfall Sewer, Section 9	3,900
Outfall Sewer, Section 10	3,600
High Level Interceptor, Sec. 1	3,200
High Level Interceptor, Sec. 2	4,000
West Low Level Interceptor, Section 1	3,750
West Low Level Interceptor, Section 2	3,800
Clearing and Grading the Site of the Back River Disposal Works	6,000

Approximate Quantities are as follows:

Outfall Sewer.
(11′ 0″ × 12′ 3″ Concrete Sewer.)
Section 3: 2,981 lin. ft. Section 7: 2,852 lin. ft.
Section 4: 2,947 lin. ft. Section 8: 2,900 lin. ft.
Section 5: 2,975 lin. ft. Section 9: 2,672 lin. ft.
Section 6: 3,248 lin. ft. Section 10: 2,778 lin. ft.

High Level Interceptor.
(8′ 4″ diameter Concrete Sewer.)
Section 1: 2,535 lin. ft. Section 2: 2,665 lin. ft.

West Low Level Interceptor.
(Concrete Sewer.)
Section 1: 300 lin. ft. 84″ circular sewer; 720 lin. ft. 80″ circular sewer; 645 lin. ft. 76″ circular sewer.
Section 2: 1,940 lin. ft. 74″ circular sewer.

Clearing and Grading the Site of the Back River Disposal Works.
120 acres of land to be cleared.
428,825 cubic yards excavation.
331,150 cubic yards rolled embankment.
3,500 linear feet vitrified underdrain.

The successful bidder will be required to give bond and comply with the City Charter respecting contracts.

Bids for each section of the work will be considered separately.

The Board reserves the right to reject any and all bids.

By order of the Sewerage Commission.

PETER LEARY, JR., Chairman.

HARRY W. RODGERS, Secretary.

Approved:
E. CLAY TIMANUS,
President, Board of Awards.
10-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 5, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 15th day of April, 1907, and then opened, for the construction (complete) of the extension to the U. S. Post-Office and Court-House at Tyler, Texas, in accordance with drawings and specification, copies of which may be had at this office, or at the office of the Custodian of the building at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 10-2t

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., March 2, 1907.—Sealed proposals will be received at this office until 12 o'clock, noon, Saturday, March 23, 1907, for making repairs to asphalt pavements for periods ending June 30, 1909, and June 30, 1911. Blank forms of proposal and specifications may be obtained on application to Room 43, District Building. H. B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 10-2t

CATSKILL AQUEDUCT.

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at 299 Broadway, Room 911, New York, until 2 p. m., Monday, March 18, 1907, for the construction of portions of the Catskill Aqueduct, aggregating 10.73 miles in length.

At the same place and hour the bids will be publicly opened and read. The award of the contract, if awarded, will be made as soon thereafter as practicable.

The principal items in the Engineer's estimate of the work are as follows:

Excavation in open cut....	1,058,300 cu. yds.
Refill and embankment....	659,300 cu. yds.
Excavation and replacing of top soil for surface dressing.....	137,000 cu. yds.
Excavation in tunnels.....	170,000 cu. yds.
Concrete masonry for aqueduct in open cut.....	211,000 cu. yds.
Concrete masonry in tunnels	45,000 cu. yds.
Portland cement	340,000 bbls.
Steel for reinforcing concrete	125,000 lbs.
Stone boundary walls.....	84,000 lin. ft.
Fences and guard rails.....	63,000 lin. ft.

For other items see contract.

The bond required for faithful performance of the contract will be Five Hundred Thousand ($500,000) Dollars. No bid will be received or considered unless accompanied by either a certified check upon a National or State Bank in The City of New York, drawn to the order of the Comptroller, or money, to the amount of Seventy-five Thousand ($75,000) Dollars.

Time allowed for the completion of the work is 45 months after signing of contract.

Copies of a pamphlet containing further information for bidders, form for proposal, contract, and bond, approved by the Corporation Counsel, and specifications can be obtained at the office of the Board of Water Supply on application in person or by mail. Pamphlet of drawings may be obtained on payment of Five ($5) Dollars.

J. EDWARD SIMMONS,
President;
CHAS. N. CHADWICK,
CHAS. A. SHAW,
Board of Water Supply.
J. WALDO SMITH,
Chief Engineer,
THOS HASSETT,
Secretary. 8-4t

DREDGING.

New Orleans, La.

Sealed proposals will be received up to 8 o'clock P. M., Wednesday, March 27th, 1907, for the construction of the Algiers Outfall Drainage Canal.

The work to be done will consist of, approximately, 360,000 cubic yards of excavation, the construction of a concrete by-pass at Drainage Pumping Station No. 8, and a trestle over the canal on the line of the New Orleans, Fort Jackson & Grand Isle R. R.; all to be let in one contract.

Specifications with blank form of proposal and general plans may be obtained on application at the office of the Board.

A certified check on a New Orleans bank, in the sum of $1,000, deposited in accordance with the terms of the specifications, will be required of each bidder.

A surety company bond, in a company doing business in the State of Louisiana, for an amount equal to 25 per cent. of the gross amount of contract, will be required of the successful bidder.

The right is reserved to reject any or all bids.

Office of Sewerage and Water Board, No 602 Carondelet St.

F. S. SHIELDS,
Secretary.
GEO. G. EARL,
General Superintendent. 9-4t

SALE OF BONDS.

Notice is hereby given that the borough council of the Borough of Holly Beach City, N. J., will receive bids for the sale of Forty (40) redemption Five Hundred ($500.00) Dollars each interest at 5% payable semi-annually at the Marine Natl. Bank of Wildwood, N. J., for Twenty (20) years, dated April 1, 1907, in accordance with Ordinance No. 62.

Bids opened Wednesday, March 13th, 1907, at 1 o'clock P. M. Address all bids to the borough clerk and marked "Proposals for sale of bonds."

Council reserves the right to reject one or all bids.

H. S. HEWITT,
Borough Clerk.
10-1t

SEWAGE DISPOSAL WORKS.

Waterbury, Conn.

Sealed bids for the construction of Section 3, Main Carrier, Sewage Disposal Works, including filter influent and effluent conduits, grit chamber, substructure for controller house and appurtenances, will be received by the Board of Public Works, Waterbury, Conn., until 8 p. m., April 2, 1907, at which hour the bids will be publicly opened and read.

Bids will be prepared on the basis of the following approximate estimate of quantities of work to be done:

Item 1. Earth Excavation, 15,000 cubic yards.

Item 2. Rock Excavation, 2,500 cubic yards.

Item 3. Brick Masonry, 40 cubic yards.

Item 4. Concrete Masonry, Class A, 800 cubic yards.

Item 5. Concrete Masonry, Class B, 2,000 cubic yards.

Item 6. Concrete Masonry, Class C, 100 cubic yards.

Item 7. Split-stone Masonry, 25 cubic yards.

Item 8. Ashlar Masonry, 12 cubic yards.

Item 9. Granolithic floor, 30 square yards.

Item 10. Slope Paving, 200 cubic yards.

Item 11. Riprap, 250 square yards.

Item 12. Setting Sluice Gates, lump sum.

Item 13. Cast iron pipe, 4-inch, 28 tons.

Item 14. Cast iron pipe specials, 4-inch, 1 ton.

Item 15. Terra Cotta 2-duct conduit, 2,800 feet.

Each bid must be accompanied by a certified check for three thousand five hundred dollars ($3,500) drawn to the order of the Comptroller of the City of Waterbury, Conn.

A bond in the sum of twenty thousand dollars ($20,000) will be required for the faithful performance of the contract.

Plans, specifications and form of contract may be seen, proposal blanks procured, and all available information obtained, at the office of the City Engineer. Proposals must be made on blanks furnished by the board, and no bids will be considered unless prepared in strict conformity to this notice.

Printed pamphlets of form of contract and specifications and blue-prints of the plans may be obtained by intending bidders upon making a deposit of five dollars.

The time fixed for the completion of the work is November 15, 1907.

The Board reserves the right to reject any and all bids, or to accept any bid, should the Board deem it to be for the interest of the City so to do.

By order of the Board of Public Works.

R. A. CAIRNS, City Engineer.
March 1, 1907. 10-2t

BOILERS AND CHIMNEY.

Orange, N. J.

Sealed proposals, endorsed "Proposals for Furnishing, Constructing and Placing in Operation the Boilers and Chimney for the New Pumping Plant at the Chestnut Street Pumping Station," and addressed to the Common Council of the City of Orange, will be received by the City Clerk at the hour of eight o'clock in the evening on Monday, the twenty-fifth day of March, A. D. Nineteen Hundred and Seven, in the Common Council Chamber, Canfield Street Engine House, and opened publicly at said meeting in the presence of the bidders who may choose to attend.

Each proposal must be accompanied by an undertaking of a Surety Company, authorized to do business in the State of New Jersey, to the amount of the contract, that it will enter into indemnity bond to that amount upon the award of the contract to the successful bidder.

Specifications may be seen at the office of the City Engineer, Orange National Bank Building.

No bid will be considered unless the party making shall furnish evidence satisfactory to the Common Council of his experience and ability in this class of work, and his financial ability successfully to prosecute the said contract in case the same shall be awarded him.

Bidders are required to state in their bids their individual names and places of residence in full.

The right to accept or reject a part of any or all proposals is hereby reserved, as may be deemed best for the interest of the City.

WILLETT B. GANO,
City Clerk.
10-2t
Dated, Orange, N. J., March 5th, 1907.

PUMPING MAIN AND EJECTORS.

Orange, N. J.

Sealed proposals, endorsed "Proposals for Furnishing, Constructing and Placing in Operation the Pumping Main and Ejectors," for the proposed new Sewage Pumping Plant at the Chestnut Street Pumping Station, and addressed to the Common Council of the City of Orange, will be received by the City Clerk at the hour of eight o'clock in the evening on Monday, the twenty-fifth day of March, A. D. Nineteen Hundred and Seven, in the Common Council Chamber, Canfield Street Engine House, and opened publicly at said meeting in the presence of the bidders who may choose to attend.

Each proposal must be accompanied by an undertaking of a Surety Company, authorized to do business in the State of New Jersey, to the amount of the contract, that it will enter into indemnity bond to that amount upon the award of the contract to the successful bidder.

Specifications may be seen at the office of the City Engineer, Orange National Bank Building.

No bid will be considered unless the party making shall furnish evidence satisfactory to the Common Council of his experience and ability in this class of work, and his financial ability to successfully prosecute the said contract in case the same shall be awarded him.

Bidders are required to state in their bids their names and places of residence in full.

The right to accept or reject a part of any or all proposals is hereby reserved, as may be deemed best for the interest of the City.

WILLETT B. GANO,
City Clerk.
10-2t
Dated, Orange, N. J., March 5th, 1907.

PAVING BRICK AND BRICK PAVING.

Mamaroneck, N. Y.

Sealed proposals for the paving with brick of portions of the Boston Post Road and Mamaroneck Avenue in the Village of Mamaroneck, N. Y., will be received by the Board of Trustees, at the Village Rooms until 8.30 o'clock P. M., March 25th, 1907.

Approximately 40,000 sq. yds. of vitrified brick pavement will be laid and 14,000 lin. ft. of curbing set, together with the construction of a drainage system.

Each bid must be accompanied by a certified check for a sum equal to five (5) per cent. of the amount of the bid.

A Surety Company bond for an amount equal to twenty (20) per cent. of the bid will be required.

AT THE SAME TIME AND PLACE AND UNDER THE SAME CONDITIONS, BIDS WILL BE RECEIVED FOR FURNISHING APPROXIMATELY 40,000 SQUARE YARDS OF VITRIFIED PAVING BRICK.

The Board of Trustees reserves the right to reject any and all bids.

Plans and specifications may be seen and bidding forms obtained at the office of the Village Clerk, Mamaroneck, N. Y.

DANIEL WARREN, President.
CHARLES W. BUCKTER, Clerk. 10-3t

MACADAM ROADS.

Ithaca, N. Y.

The Board of Supervisors of Tompkins County, N. Y., invite correspondence relative to improving 13 miles of highway. Work is to be sub-let and the necessary machinery and tools may be obtained from the county.

WILLIAM H. PARKER,
10-1t Chairman, Good Roads Committee.

WATER-WORKS AND SEWERS.

Lumberton, N. C.

Sealed proposals will be received by the town of Lumberton, N. C., until March 15th, 1907, for extension of system of water-works and sewerage for said town, contract aggregating about $20,000. Forms of proposals, copies of specifications, etc., may be obtained from undersigned, with plans and profiles. Deposit of $500 required as guarantee. The town reserves the right to reject all bids. For further information address

R. C. LAWRENCE,
Town Attorney,
10-2t Lumberton, N. C.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., February 28th, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 9th day of April, 1907, and then opened for the construction, including heating apparatus, electric conduits and wiring, of the U. S. Post Office at Little Falls, New York, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Custodian of Site at Little Falls, New York, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 10-2t

LIGHTING.

Natchez, Miss.

Bids for lighting the City of Natchez, Mississippi, for a term of ten years from March 1st, 1909, will be received up to 4 p. m., May 1st, 1907.

Specifications on file at City Clerk's office.

For further particulars address GEORGE T. EISELE, City Clerk, or A. C. Berdon, Chairman Lights and Water Committee, Natchez, Mississippi. 10-2t

Department of Public Works,
Bureau of Highways,
Office, 232 City Hall,
Philadelphia, Pa., March 2, 1907.

Sealed proposals, endorsed, "Bids for the Items bid for," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Wednesday, March 20, 1907, for

Schedule A. For Grading Streets.
Schedule B. For Paving Streets with Refined Natural Asphalt.
Schedule C. For Paving Streets with Vitrified Fire Clay or Shale Bricks or Blocks.
Schedule D. For Paving Streets with Granite, Pennsylvania or Lambertville Blocks.
Schedule E. For Repairs to Paved Streets during the year 1907.
Schedule F. For Repairs to Asphalt and Granolithic Paved Streets during the year 1907.
Schedule G. For Paving and Repaving Streets, etc.
Schedule H. For Removal of Obstructions.

Specifications and blank forms upon which bids must be made can be obtained upon application at the Office of the Bureau of Highways, Room 232, City Hall.

Any work included in the above schedules for which appropriation has not been made or ordinance approved will be subject to future appropriation of Councils and approval of ordinance.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81 West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

JOHN R. HATHAWAY,
10-1t Director.

Department of Public Works,
Bureau of Surveys,
Office, 412, City Hall,
Philadelphia, Feb. 27, 1907.

Sealed proposals, endorsed, "Bids for Branch Sewers, Inlets, Reconstruction of Old Sewers, Photolithographs and Engineering Supplies" and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Tuesday, March 19, 1907, for

Schedule A. Branch Sewers.
Schedule B. Construction of New Inlets, Manholes, etc.
Schedule C. Reconstruction of Inlets, etc.
Schedule D. Repairs, Reconstruction and Improvement of Old Sewers.
Schedule E. Photolithographs and Half Tones for Annual Report.
Schedule F. Engineering, Field and Office Supplies for Grade Crossing Division.

Plans for the above work will be exhibited in the office of Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made, will be furnished upon application to the Chief Engineer, Room 416, City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

J. R. HATHAWAY,
10-2t Director.

U. S. ENGINEER OFFICE, 415, Custom-House, Cincinnati, Ohio., February 20, 1907.—Sealed proposals for constructing Lock and Dam No. 11, two dwellings, two outhouses, two cisterns and one office building, near Ellis, Ohio, will be received here until 2 P. M., standard time, March 22, 1907, and then publicly opened. Information furnished on application here or to Edmund Moeser, Assistant Engineer, Zanesville, Ohio. J. G. WARREN, Maj., Engrs. 8-4t

U. S. ENGINEER OFFICE, Jacksonville, Fla., Feb. 23, 1907.—Sealed proposals for dredging in Tampa Bay, Fla., will be received here until 12 o'clock noon, March 25, 1907, and then publicly opened. Information on application. FRANCIS R. SHUNK, Maj., Engrs. 9-4t

U. S. ENGINEER OFFICE, Wheeling, W. Va., March 5, 1907.—Sealed proposals for furnishing and delivering about 9,500 barrels of American Portland cement at Dam No. 18, Ohio River, will be received here until 11 a. m. (Eastern time), April 3, 1907, and then publicly opened. Information furnished on application. F. C. BOGGS, Capt., Engrs. 10-4t

U. S. ENGINEER OFFICE, Custom-House, Cincinnati, Ohio, Feb. 28, 1907.—Sealed proposals for hire of Dredging Plant, consisting of one Dredge, one Towboat, and three Dump Scows, will be received here until 12 M., March 30, 1907, and then publicly opened. Information on application. WM. T. ROSSELL, Lt.-Col., Engrs. 10-4t

TRUNK SEWER AND TUNNEL.

White Plains, N. Y.

Pursuant to the Provisions of Chapter 646 of the Laws of New York, 1905.

Sealed bids addressed to the Chairman of the Bronx Valley Sewer Commission, and accompanied by a certified check for at least five per cent. of the amount bid for each section, will be received up to 1.30 P. M., March 20, 1907, for furnishing all the work and materials necessary for the water-tight and enduring construction of each one of the four sections which together comprise about 12 miles of reinforced circular concrete sewer, from 3 to 6 ft. in diameter, and about 3 miles of circular concrete lined tunnel, mostly 6½ and 8½ ft. in diameter.

Plans and specifications may be seen at the office of the Commission. The invitation to contractors, the form for bids, the specifications and the form of contract may be obtained from the Secretary of the Commission upon the payment of One Dollar, to be repaid when the same are properly used in bidding.

Form of bid must fulfil the requirements of the invitation, and be made out upon the printed form of bid as above obtained, and the Commission reserves to itself the right to reject any or all bids or to accept that one or those whose acceptance will in its judgment best secure the public interest and the efficient performance of the work mentioned.

FRANK N. GLOVER,
Secretary.

Office of the Commission, No. 2 Grand St., February 16, 1907. 8-4t

DEPARTMENT OF THE INTERIOR, UNITED STATES GEOLOGICAL SURVEY, Reclamation Service, Washington, D. C., February 20, 1907.—Sealed proposals will be received at the office of the Engineer, United States Reclamation Service, Huntley, Montana, until 2 o'clock p. m., April 17, 1907, for the construction of structures on Garland Canal and Laterals near Ralston, Shoshone project, Wyoming, involving about 47,000 cubic yards of grading, 5,000 cubic yards of concrete, the placing of 348,000 pounds of steel reinforcing bars and other incidental work. Particulars may be obtained from the Chief Engineer of the United States Reclamation Service, Washington, D. C., the Supervising Engineer, Huntley, Montana, or the Engineer, Cody, Wyoming. E. A. HITCHCOCK, Secretary. 9-4t

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Philadelphia, Pa., until 11 o'clock A. M., March 16th, 1907, and then opened, for building concrete sea wall, removing sheet piling, etc., at the Ludlam Beach Light-Station, Sea Isle City, N. J., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to Major C. A. F. FLAGLER, Corps of Engineers, U. S. A., Engineer. 9-2t

Office of the Building Committee,
U. S. Department of Agriculture,
Washington, D. C., Jan. 31, 1907.

Sealed proposals will be received at this office until 2 o'clock p. m., on the 12th day of March, 1907, and then opened, for the construction of the Power-House for the United States Department of Agriculture, Washington, D. C., in accordance with the drawings and specifications, copies of which may be obtained at the Office of the Building Committee, United States Department of Agriculture.

All applications must be accompanied by a certified check for $25, made payable to the Disbursing Clerk of the Department of Agriculture, which checks will be retained until the return of the drawings and specifications.

B. T. GALLOWAY,
6-3t 10-1t Chairman.

Mechanical and Electrical Engineers.

MECHANICAL ENGINEER, technical graduated man, 10 years experience in the Austrian Government Railway; also able for some civil engineering work; one year here working as draftsman in a steel car company, wants at once position as mechanical engineer or draftsman on a Southern or Eastern railway. Address "H. B. 10," Engineering News, New York. 10-1t

ELECTRICAL ENGINEER, graduate, desires responsible position where rapid advancement is obtainable for the showing. Position with electric railway or transmission company preferred. Have first-class structural experience which may be valuable to some company. Business and executive abilities. Now in charge of drafting room. Detail experience and references furnished on application. Address "W. B. 10," Engineering News, New York. 10-2t

Civil Engineers.

ENGINEER, experienced in designing and construction of special track-work, frogs, switches, etc., soon open for engagement. Familiar with street, steam and elevated construction; competent on estimating or any branch of the work. Best references. Address "TRACK," 1636 Monadnock, Chicago. 10-2t

GRADUATE ENGINEER, 28, five years' field and office experience in railroad location, construction and maintenance of way, desires change. Railroad work or general engineering. East preferred. Least salary $110.00. Address "S. B. 10," Engineering News, New York. 10-3t

Draftsmen.

STRUCTURAL DRAFTSMAN with long experience in buildings and bridges, graduate civil engineer, wants employment. Address "M. B. 10," Engineering News, New York. 10-3t

STEEL MILL WORK—Draftsman, 36, with 10 years experience, desires change into this line. Address "D. B. 4," General Delivery, Schenectady, N. Y. 10-1t

Surveyors.

POSITION WANTED by embryo engineer as instrumentman, rodman, or general assistant. Two years college education. Experienced in the use of instruments and computing. Fair draftsman. Address "O. B. 10," Engineering News, New York. 10-1t

YOUNG MAN, 17, evening high school student, working with large building material concern, wishes to start from bottom with surveyor. Big, strong, willing to work hard. Salary to start no object. Address "G. B. 10," Engineering News, New York. 10-1t

Superintendents, Misc., etc.

CONTRACTOR'S ENGINEER, experienced on water-works, sewers, tunnels, and general construction. Good executive and business ability. Accustomed to both office and outside work, taking full charge of contracts. Valuable acquaintance New York and vicinity. Technical graduate. Address "E. B. 9," Engineering News, New York. 9-2t

POSITION WANTED as assistant superintendent of large construction work or as superintendent of smaller work by man of 31. Experienced in similar positions in construction of dams, reservoirs, filter beds, pipe lines, water-works, sewers and concrete-steel bridges. References. J. C. B., 64a Highland Ave., Everett, Mass. 9-2t

SUPERINTENDENT or assistant, 26, civil engineering graduate; three years with contractor on concrete and masonry; at present in charge of $80,000 concrete job; able, reliable and a hustler; executive ability. Desires change to position offering permanency of location and opportunity for advancement. Address "W. A. 9," Engineering News, New York. 9-2t

OFFICE ENGINEER AND ESTIMATOR on building construction, technical graduate, 10 years' experience on first-class work; present connection A1, but desire greater opportunity and more pay. Address "A. A. 3," Engineering News, New York. 9-3t

BY SUPERINTENDENT and engineer on water-works construction, position after April 1st. Seven years experience, four of which were on slow sand and mechanical filtration plants in United States. Address "F. B. 10," Engineering News, New York. 10-1t

TECHNICAL MAN, 35, good executive and mechanical ability, wants position assistant engineer, superintendent, or charge of construction. Has held similar positions. Best references. Address "Z. B. 10," Engineering News, New York. 10-2t

CONSTRUCTION SUPERINTENDENT open for engagement in general building construction. Fifteen years experience as foreman and superintendent. References. Address "L. A. 10," Engineering News, New York. 10-1t

SUPERINTENDENT OR GENERAL MANAGER (40), 15 years in full charge of general construction and reinforced concrete, also estimating department, adjusting and letting sub-contracts. Was general superintendent on United States Government and municipal construction carrying large corps engineers. At present employed. $2,500 and per cent. profits. At liberty 15 days notice. Address "X. B. 10," Engineering News, New York. 10-2t

SUPERINTENDENT or foreman, graduate engineer, on foundation work, heavy shoring, sheet piling, caisson work, heavy concrete, etc. Estimator on such and all building construction. 3 years experience. Go anywhere. Address "O. 5," Engineering News, New York. 10-3t

WATED—Position as master mechanic or walking-boss with reliable contractor who has large work. Thoroughly experienced either steam or compressed air; expert in handling rock drills and explosives. Address "R. B. 10," Engineering News, New York. 10-1t

YOUNG MAN (28), single, technical education, residing Brooklyn, N. Y., 6 years successful record engineering and reinforced concrete building construction, desires position superintendent, inspector or foreman. Accustomed laying out own work and supervising same. At liberty March 15. Go anywhere. Address "K. A. 10," Engineering News, New York. 10-4t

YOUNG MAN, college graduate, one year with Pennsylvania Tunnels, desires position with construction company. Able to manage working crew. Address "G. A. 10," Engineering News, New York. 10-1t

GRADUATE ENGINEER, 13 years experience, wants position on large water-works or hydraulic power plant construction. Address "B. A. 10," Engineering News, New York. 10-3t

Situations Open

WANTED—By a New York building concern, several first-class draftsmen and checkers on shop drawings for structural steel work for buildings. Liberal salaries will be paid to competent men, who will be advanced according to their ability. Applications from men of limited experience will not be considered. Apply BY LETTER ONLY, stating education, experience, and salary expected, to J. D. CAMPBELL, 256 W. 38th St., New York. 10-3t

WANTED—Superintendent for Concrete Construction Co. Must be able to take general charge of construction for company doing $500,000 worth of business per annum, and willing to invest $10,000 to $15,000 in capital stock of company. Good position for right man. Address "A. B. 10," Engineering News, New York. 10-3t

EXPERT ELEVATED GRADERMEN, $3 to $4 per day, to operate the plow beam control on elevating graders. Address "B. B. 10," Engineering News, New York. 10-1t

GENERAL FOREMAN, $25 to $30 per week, on grading and concrete work. Also A1 grading foreman, $3 to $4.50 per day, on wheel scraper and elevating grader work in New York City, on Long Island. Address "D. B. 10," Engineering News, New York. 10-1t

WANTED—First-class draftsman on railroad work in New York City. State education, experience and salary to "E. B. 10," Engineering News, New York. 10-1t

WANTED—Two practical steam roller engineers for rolling macadam for State work. Also two engineers to run stone crushers. Must be sober, steady men; no other need apply. HARPER MACHINERY COMPANY, Park Row Bldg., New York. 10-2t

WANTED—Experienced engineers as resident engineers on reinforced concrete construction. Only men with experience in construction work need apply. Must be good instrumentman and good draftsman. Give age, experience, references, and salary expected. Address "H. 10," Engineering News, New York. 10-3t

WANTED—Transitman for land surveying and staking out work. Some map work. Give age, experience and salary expected. Permanent position to man that can do the work. Address "L. 10," Engineering News, New York. 10-3t

WANTED IMMEDIATELY—Technical man in office to make computation on land surveys from traverse lines, compute areas and lot sub-division work. Must be quick and accurate at figures; capable to plot from field notes. Locality near N. Y. City. Address, stating age, experience and salary expected, "M. A. 10," Engineering News, New York. 10-2t

WANTED—Electrical draftsmen; $3.04 to $4.48 per diem. Sub-inspectors (electrical), $3.04 to $3.52 per diem. A competitive examination will be held for the above positions April 3, 1907. For further information address "COMMANDANT, Navy Yard, Brooklyn, N. Y. 10-2t

WANTED—By prominent railroad company in Middle West, several competent bridge and structural draftsmen, capable of designing and detailing bridges and shop buildings. Permanent position to satisfactory parties. Applicants must state age, education, experience in detail, giving references and name date they could report for duty. Address "A. 10," Engineering News, New York. 10-1t

ENGINEERS WANTED—Two steam rollermen and one crusher engineer. Address "M. 10," Engineering News, New York. 10-1t

Miscellaneous Wants

WANTED—Drawings of all kinds made by an experienced draftsman. Address "H. F. C.," Room 503, 489 Fifth Ave., New York. 10-1t

EXPERT electrical and mechanical engineer traveling abroad will undertake commissions and act as agent. Leave for Europe about April 1st. Address "O. 10," Engineering News, New York. 10-1t

Civil Engineer and Surveyor

desires to dispose of thriving business, maps and data. Three months' work now booked. $500.00 worth of contracts. Owner desires to follow other lines. Address "P. B. 10," Engineering News, New York. 10-1t

WANTED—General engineering drafting by expert draftsmen. Maps, plans, tracings, etc. Work guaranteed. Address "B. A. 9," Engineering News, New York. 10-2t

WANTED

Second-Hand No. 1 Thew Automatic Steam Shovel

State location, quickest time of delivery and spot cash price. Address "B. 10," Engineering News, New York. 10-2t

WANTED

One Second-Hand, Double-End Punch

belt driven; capacity, 1" hole in 1" metal; also one second-hand coping machine with attachment belt ribbon; maximum capacity, 24" 100-lb. Beam.

NATIONAL BRIDGE SUPPLY CO.,
Long Island City, N. Y. 10-2t

WANT TO BUY

Second-Hand 7½-tons Crane or Hoist

in good order.

H. S. HOLLAND,
10-1t 1019 Floyd Ave., Richmond, Va.

WANTED

ONE HUNDRED TEAMS

with or without patent belt wagon on grading works in Kings and Queens Counties; all in New York City; two years' work now under contract. Address "C. B. 10," Engineering News, New York. 10-1t

WANTED

Civil or Structural Engineer

knowing something about beams, etc., wanted as assistant manager for old, well-known dividend-paying construction company. Rated $75,000 A1. Must invest, dividend-paying securities. Ample salary. Address 'A. 8" Engineering News, New York. 10-1t

FOR SALE.

2 Complete Concrete Mixing Plants.
Dump Cars, all gages; cap., from 1 to 20 yds.
200 Flat Gondolas, 50,000 lbs. cap., 35 ft. long. Piped for air.
100 Flat Cars, 50,000 lbs. cap., 35 ft. long. Piped for air.
250 Flat Bottom Gondolas, 50,000 lbs., drops in floor. Air pipes.
100 Hopper Gondolas, 60,000 lbs., air and auto. couplers.
Large lot of miscellaneous contractors' material.
Give us your wants.

THE MALES CO.,
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26 Cortlandt St., New York, N. Y.

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Shovel Plant

1 BUCYRUS SHOVEL, 1½ yd. dipper.

2 36-in. gage LOCOMOTIVES.

18 3-yd. WESTERN DUMP CARS.

45-lb. RAILS, FROGS, SWITCHES, ETC.

Carroll Contracting Co.

10-2t 316 Goodman St., Cincinnati, O.

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Three Turntable Pile Drivers

Lidgerwood Engines, Warrington Steam Hammers, Large Boilers. Good condition.

T. A. KEARNS CO.,
1200 Fisher Bldg., Chicago. 10-1t

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IMPROVED "A" MARION

SPECIAL BARGAIN

Used six months Guaranteed good as new.

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York:

Bids close.	Work.
Mar.	
*15	Dam..Great Fa
18	Sewers..Burling
*20	Sewer..White F
23	Officers' quarter
30	Capstans..Norfo
30	Capstans..Charl
*30	Water tank & to
30	Generating set.
30	Quay walls..Ch
Apr	
*3	Canal, etc..Gre

*Work advertised

LIST OF

LIGHT, H

Bids close.	Work.
At once.	Power plan
Mar. 18.	Electric eq
Mar. 18.	Heating,
Mar. 20.	Lighting
Mar. 30.	Generating
Apr. 1.	Power plan
Apr. 4.	Conduit
	Advertised
Apr. 8.	Lighting
Apr. 15.	Power plan
May 1.	Lighting,
	Advertised
Mar. 14.	Alteration
Mar. 16.	Pier and
Mar. 16.	Bridge an
Mar. 16.	Bridges,
Mar. 16.	Removing
Mar. 18.	Bridge,
Mar. 18.	Aqueduct,
	Advertised,
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Mar. 23.	Bridges,
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Mar. 27.	Bridge,
	Advertise
Mar. 28.	Bridge,
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Mar. 28.	Substruct
Apr. 1.	Bridges,
Apr. 1.	Bridge,
Apr. 2.	Bridges,
Apr. 8.	Trestles,
	Advertised
Apr. 25.	Bridges,
	Advertised
Apr. 29.	Viaduct,
	Advertise
At once.	Y. M.
Mar. 14.	Post-offi
Mar. 15.	Railway
Mar. 16.	Pipe,
	Advertised
Mar. 18.	Sanitary
Mar. 20.	Post-offi
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Mar. 21.	City ha
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Mar. 23.	Officers'
Mar. 23.	Post-off
	Advertise
Mar. 28.	Elephan
Apr. 9.	Court-h